

1/34

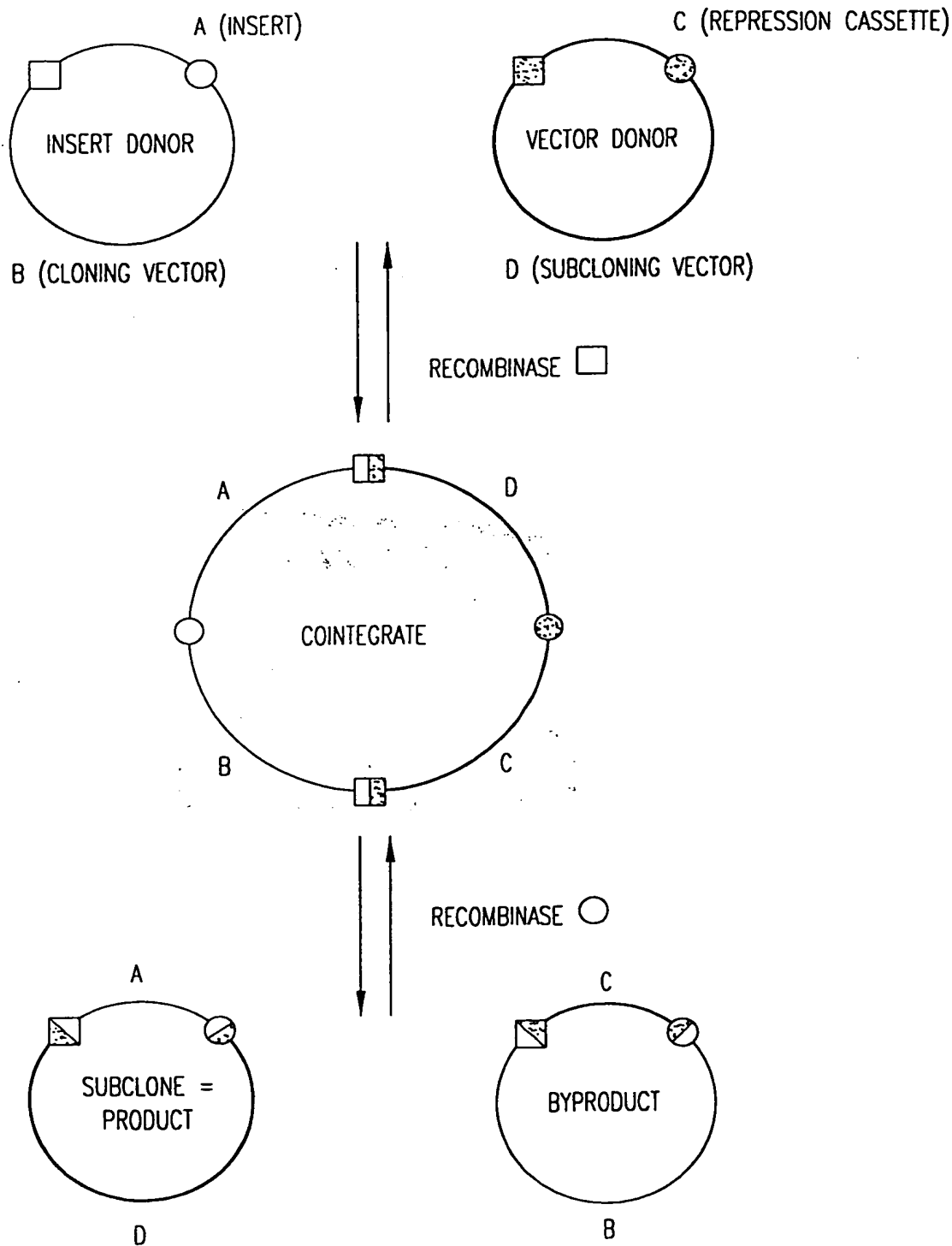


FIG.1

09732914-1050401

2/34

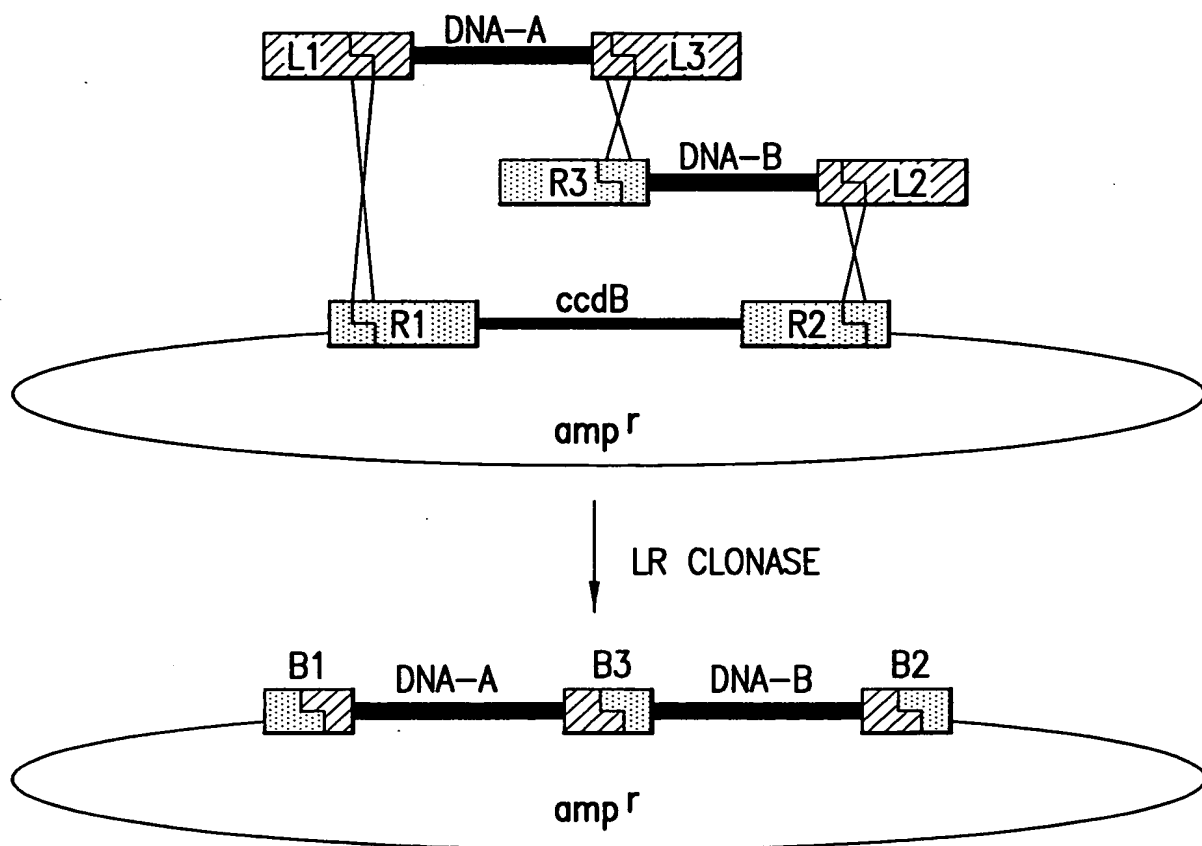


FIG.2

09732914-050401
 104050-4162E/60

3/34

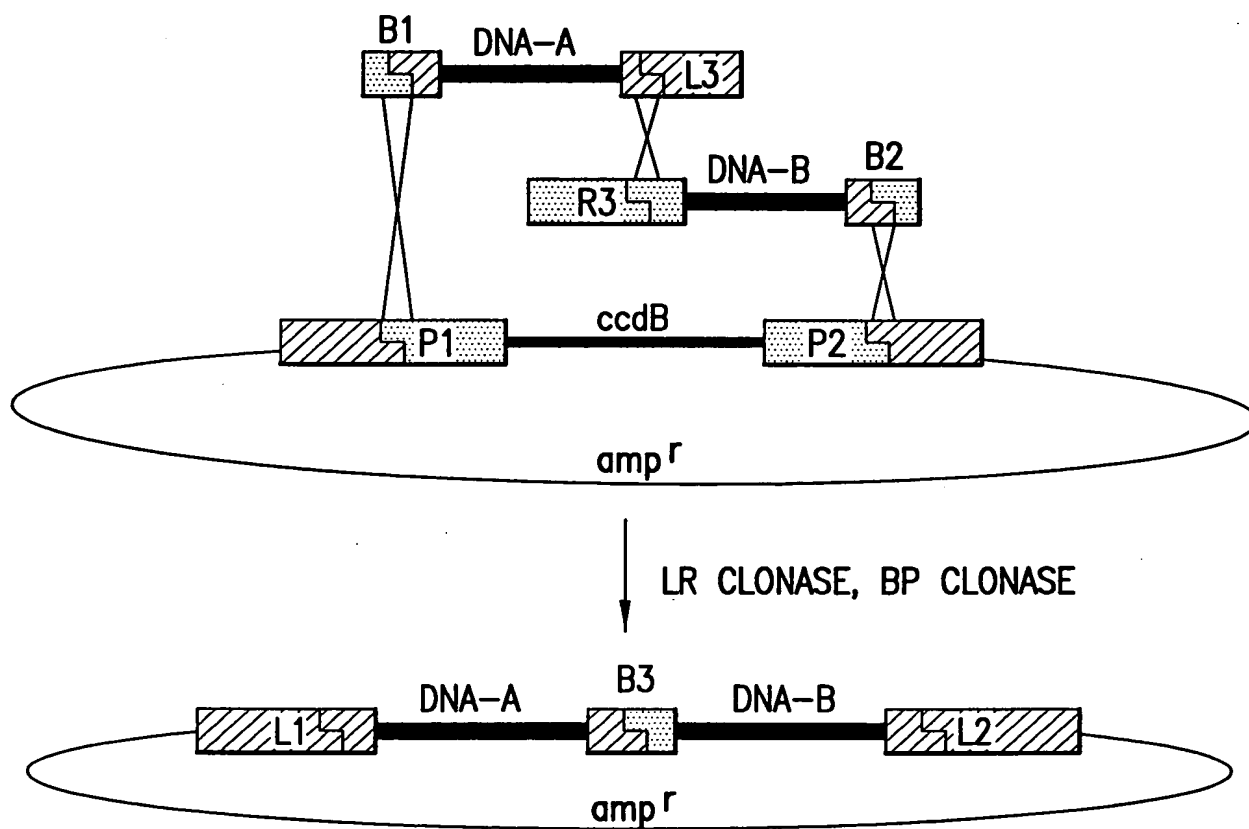


FIG.3

4/34

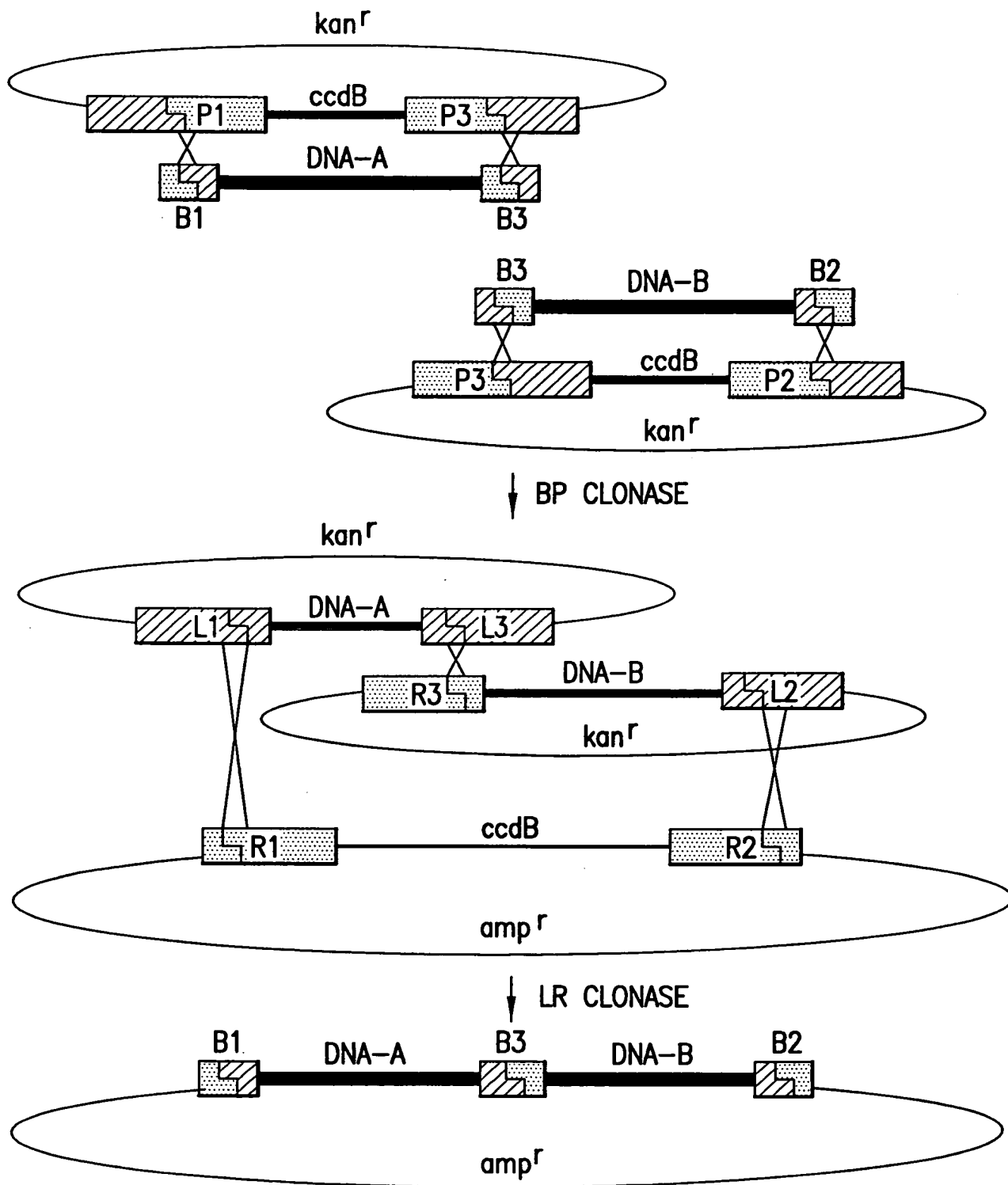


FIG.4

09732914-050401
 104050-1162260

5/34

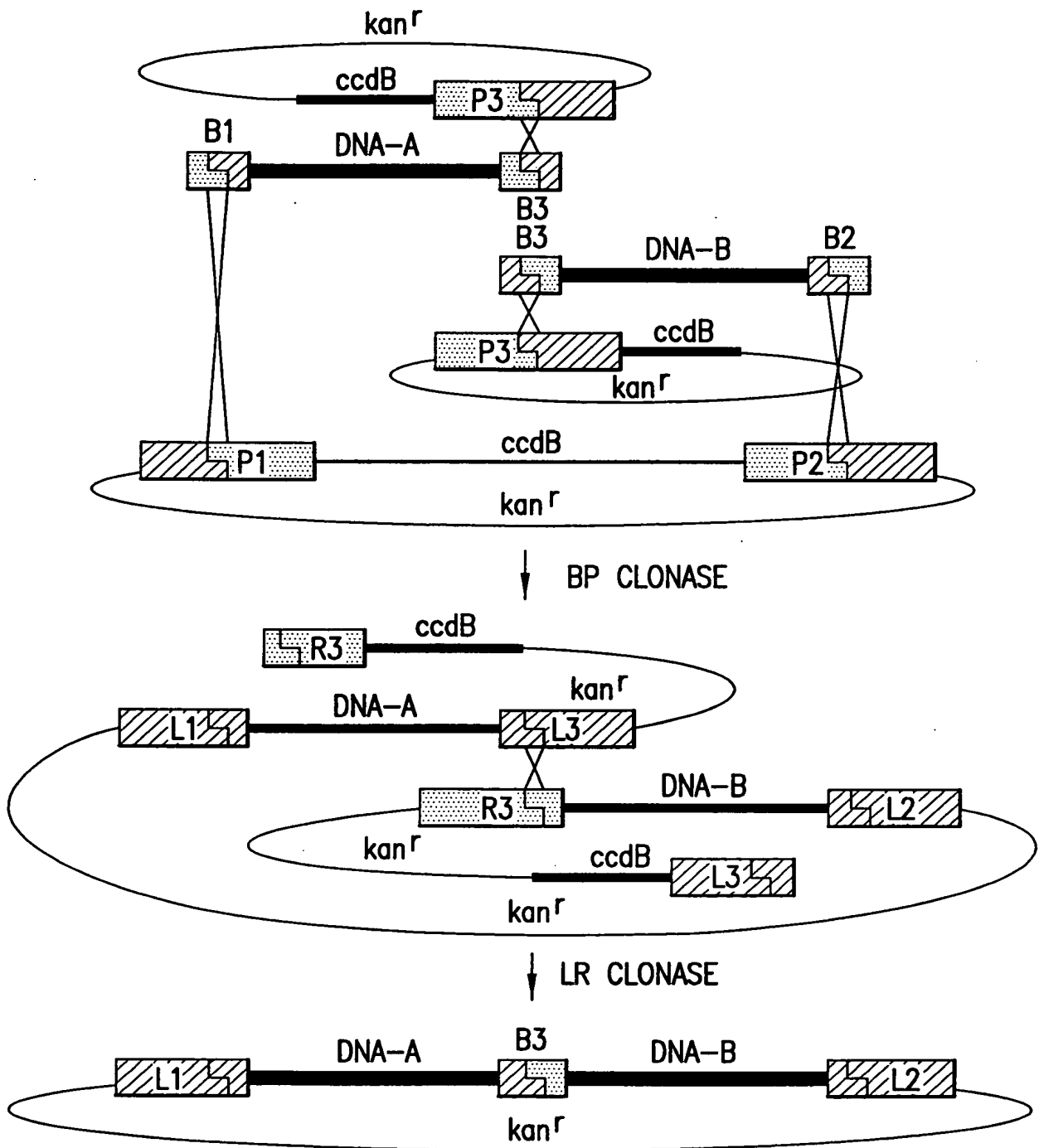


FIG.5

6/34

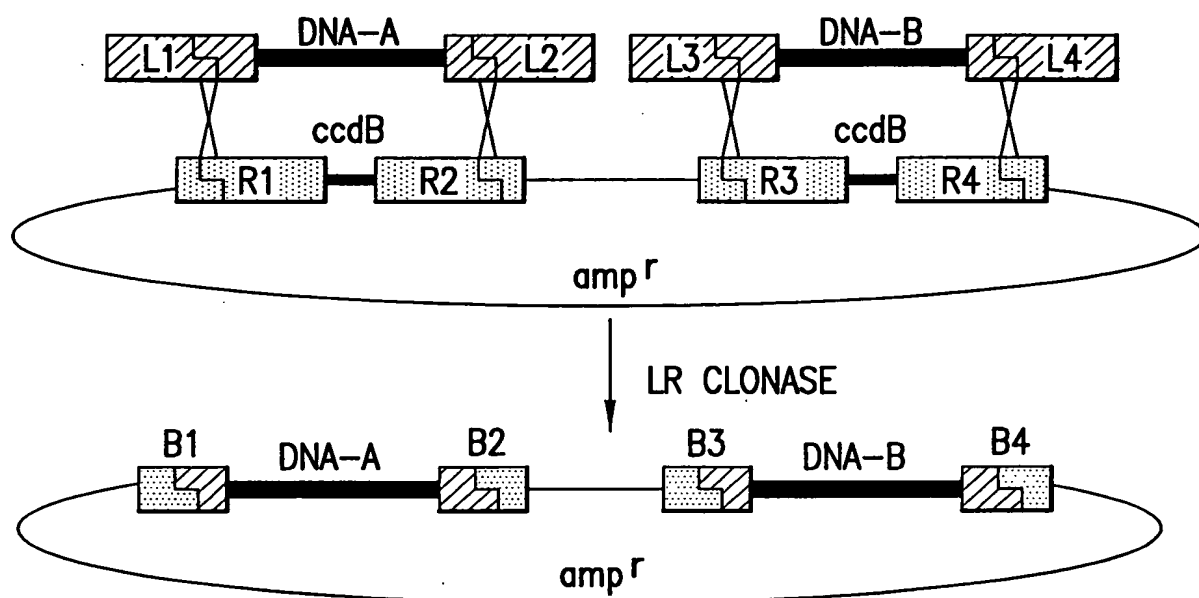


FIG.6

09732914-050401
 101050-4T62E260



FIG. 7

8/34

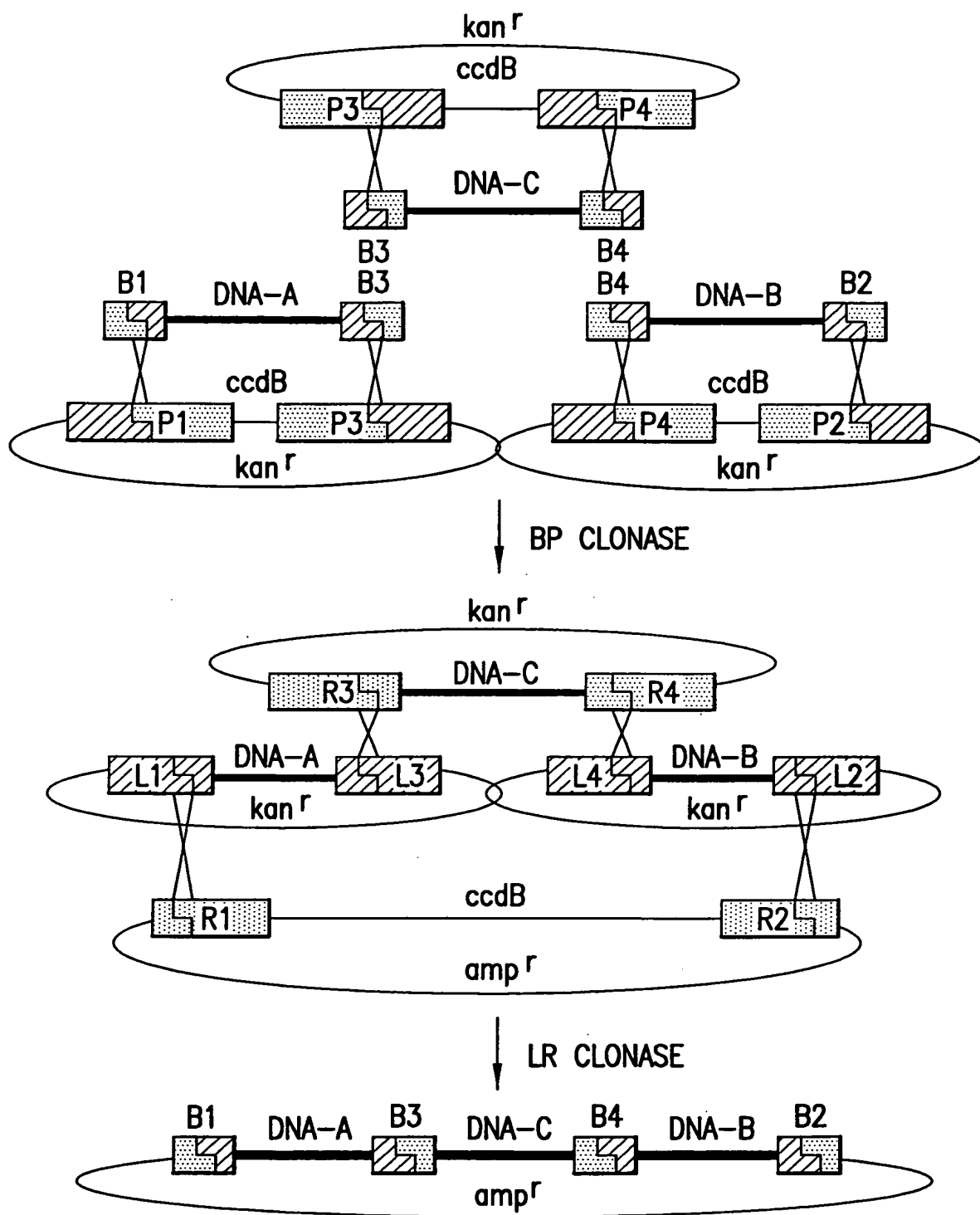


FIG.8

FIG. 8

9/34

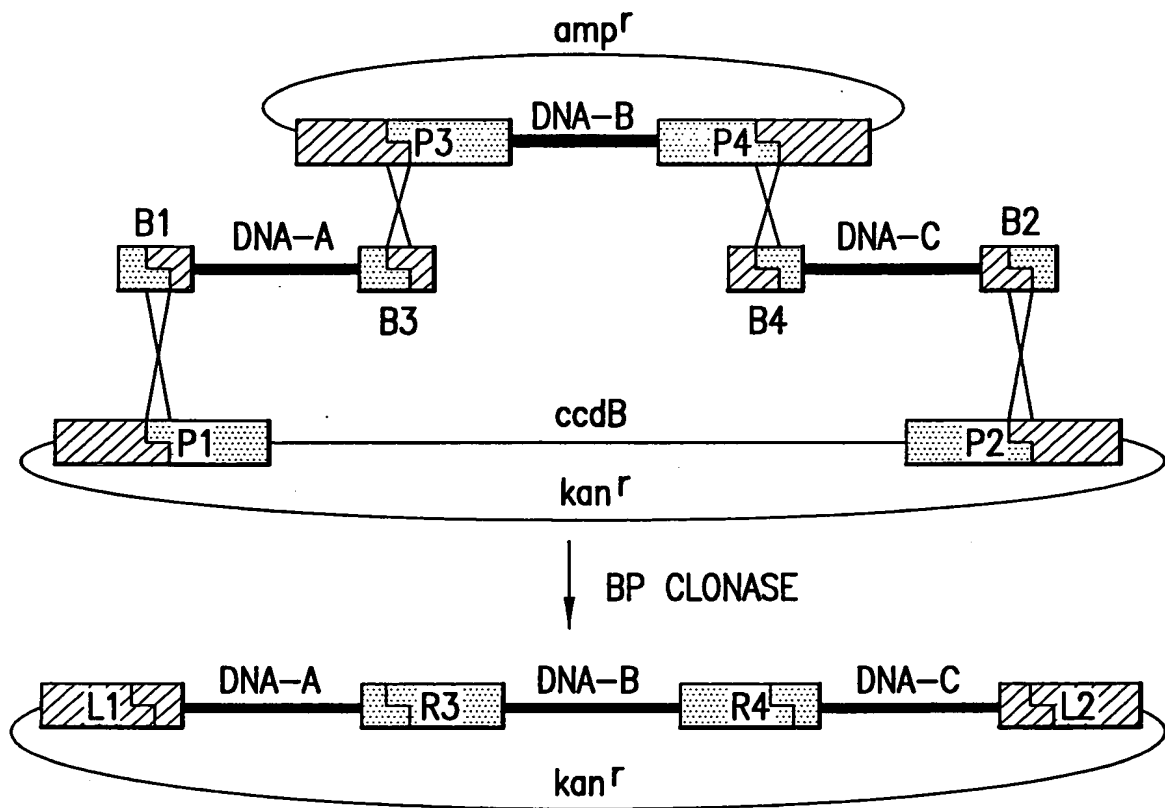


FIG.9

09732914-1162E260

10/34

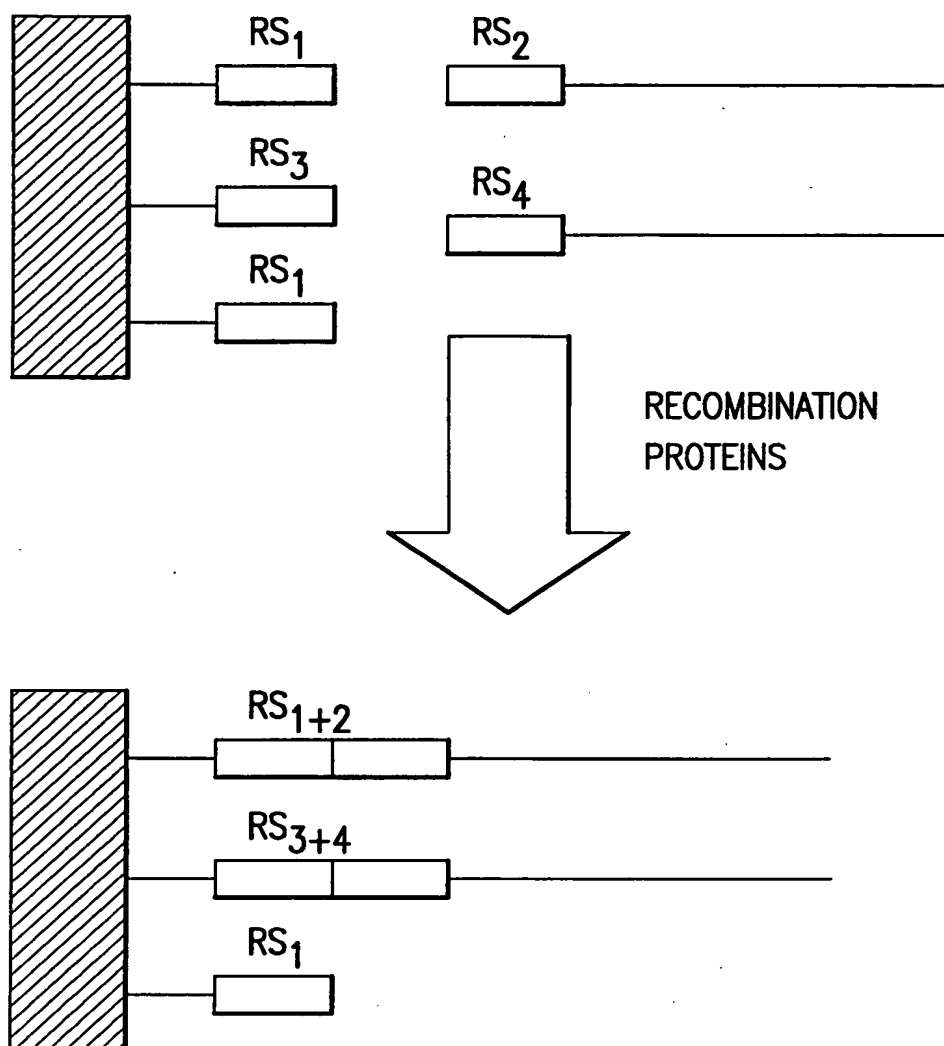


FIG.10

09732914-050401

11/34

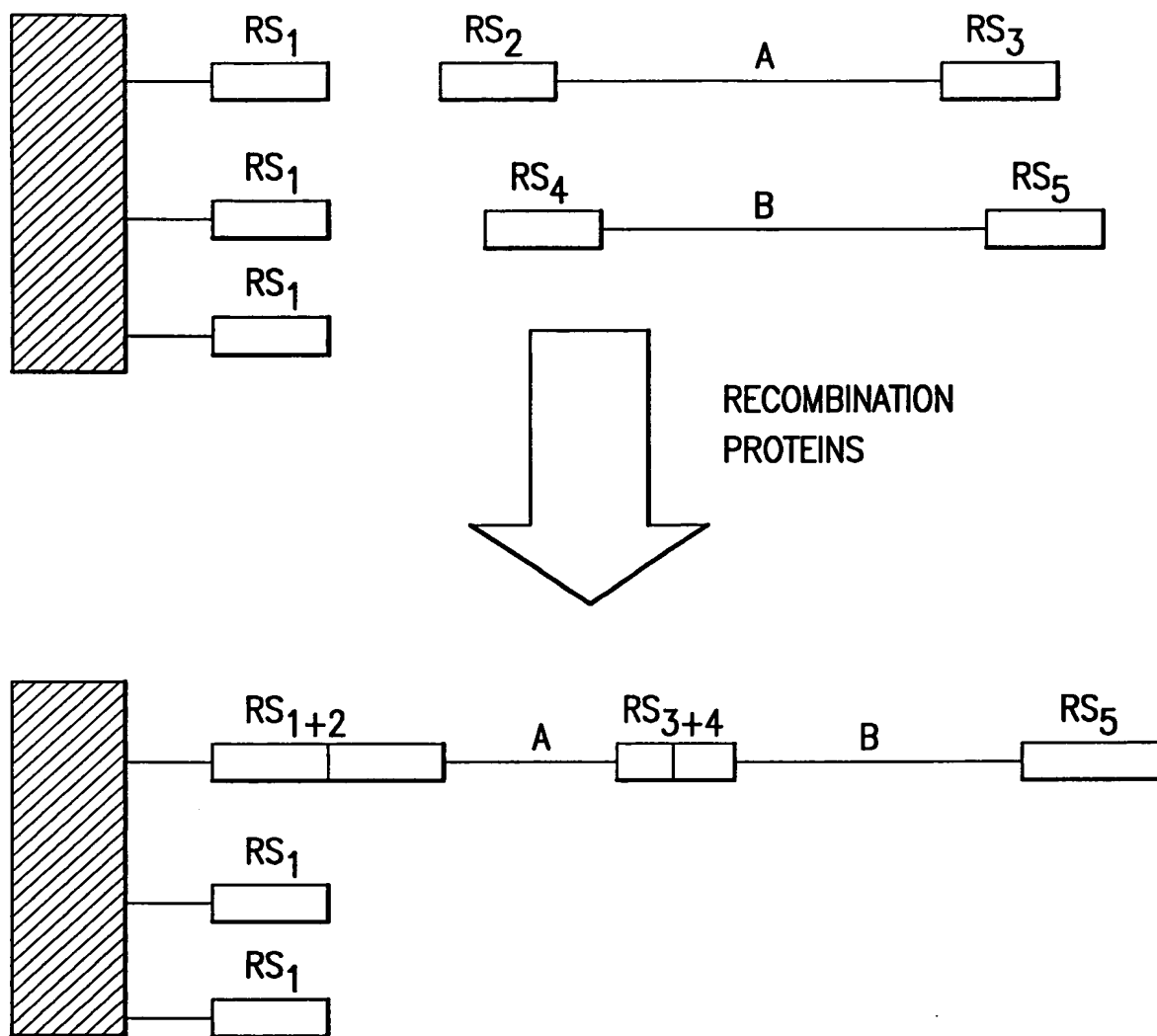


FIG.11

09732914-050401

12/34

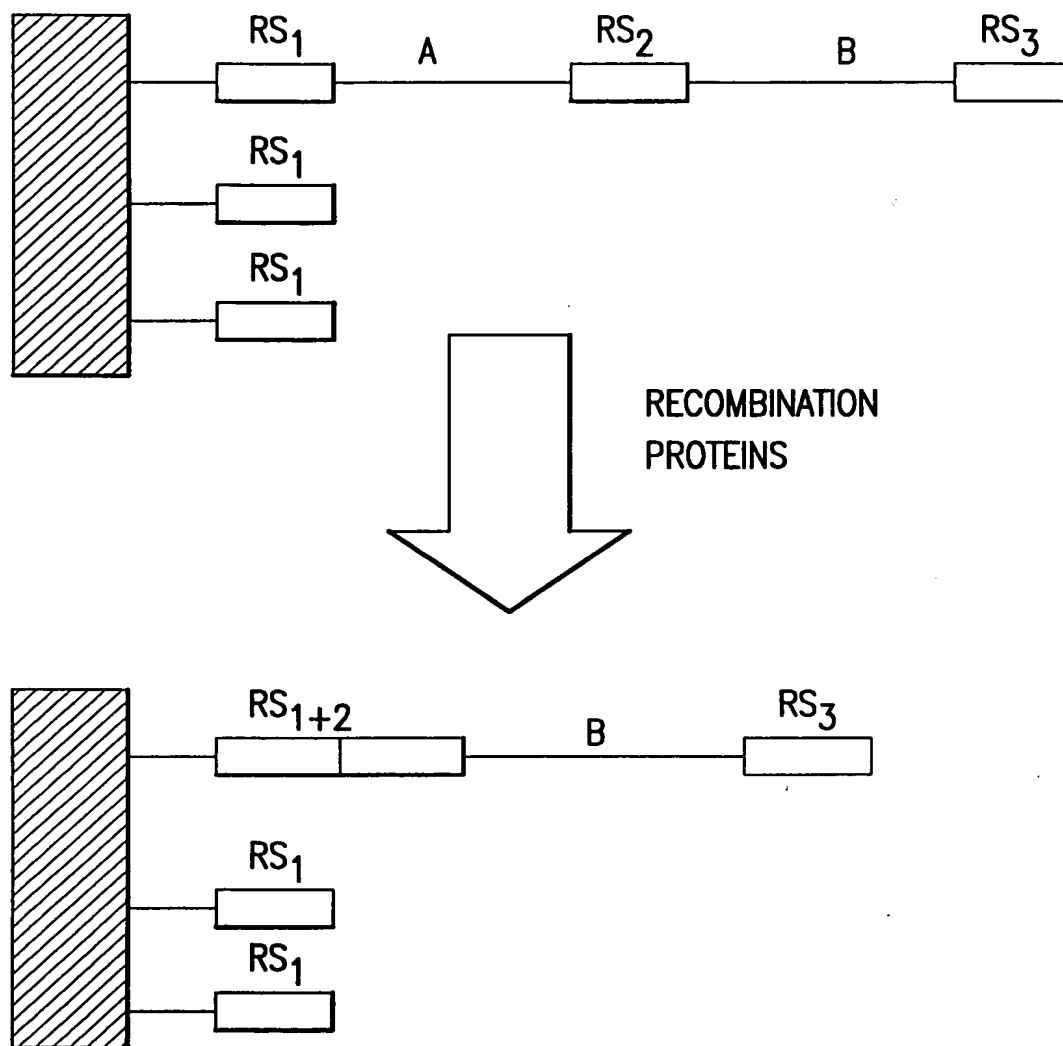


FIG.12

09732914-050401

13/34

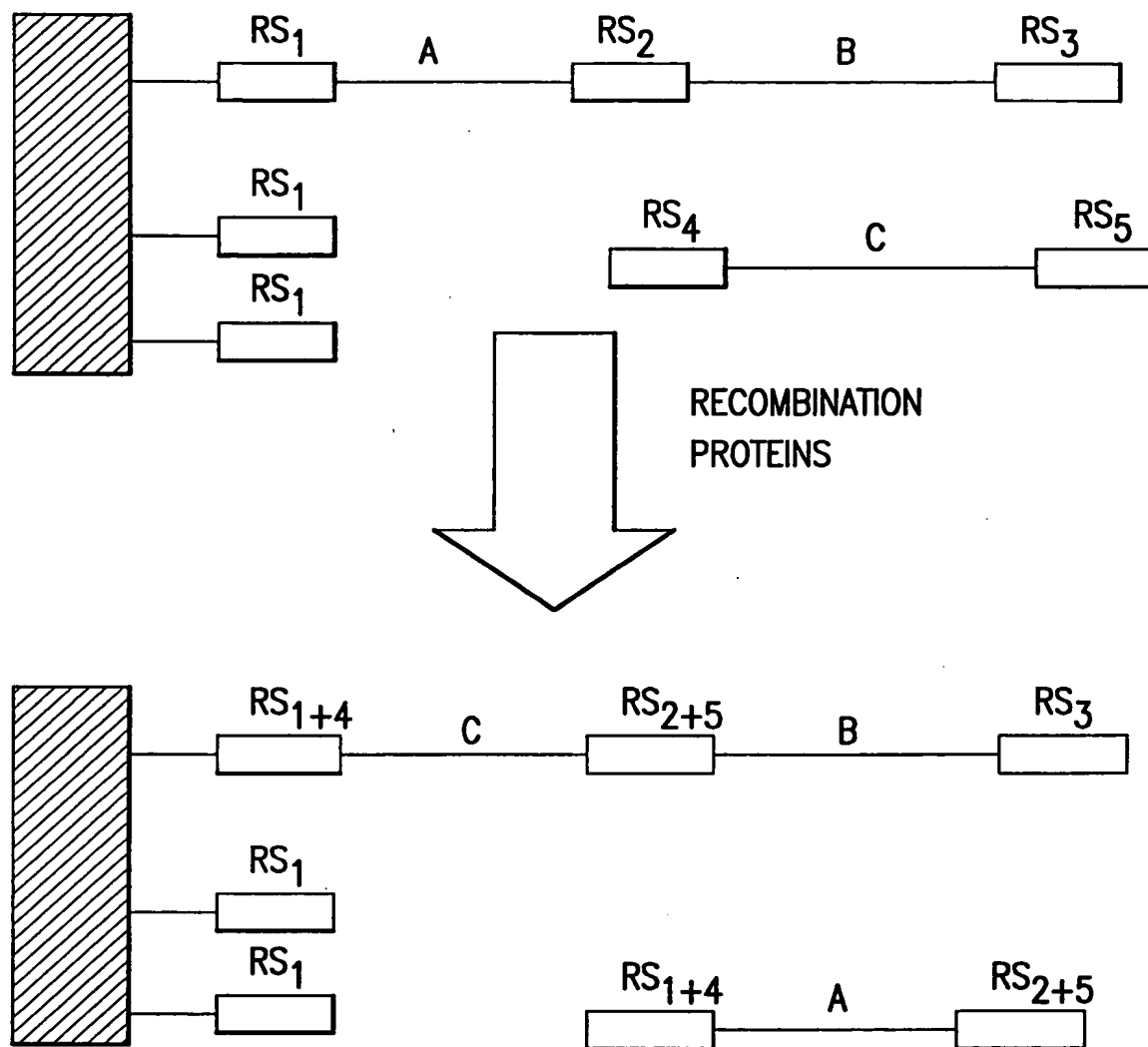


FIG.13

09732914-050401

14/34

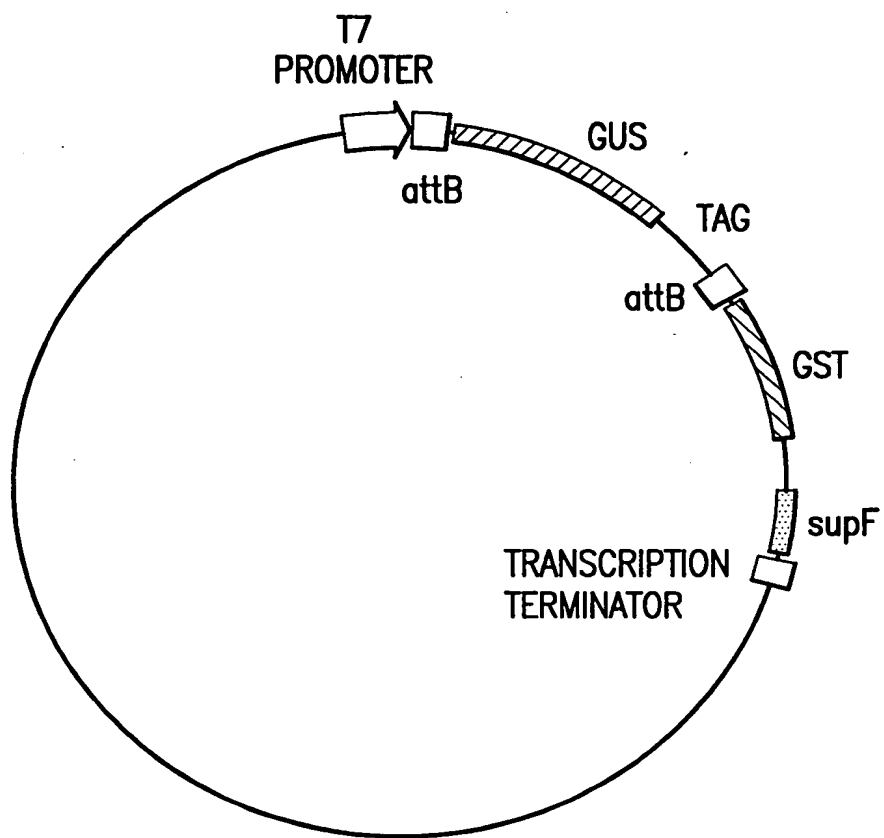


FIG.14A

09732914.050401

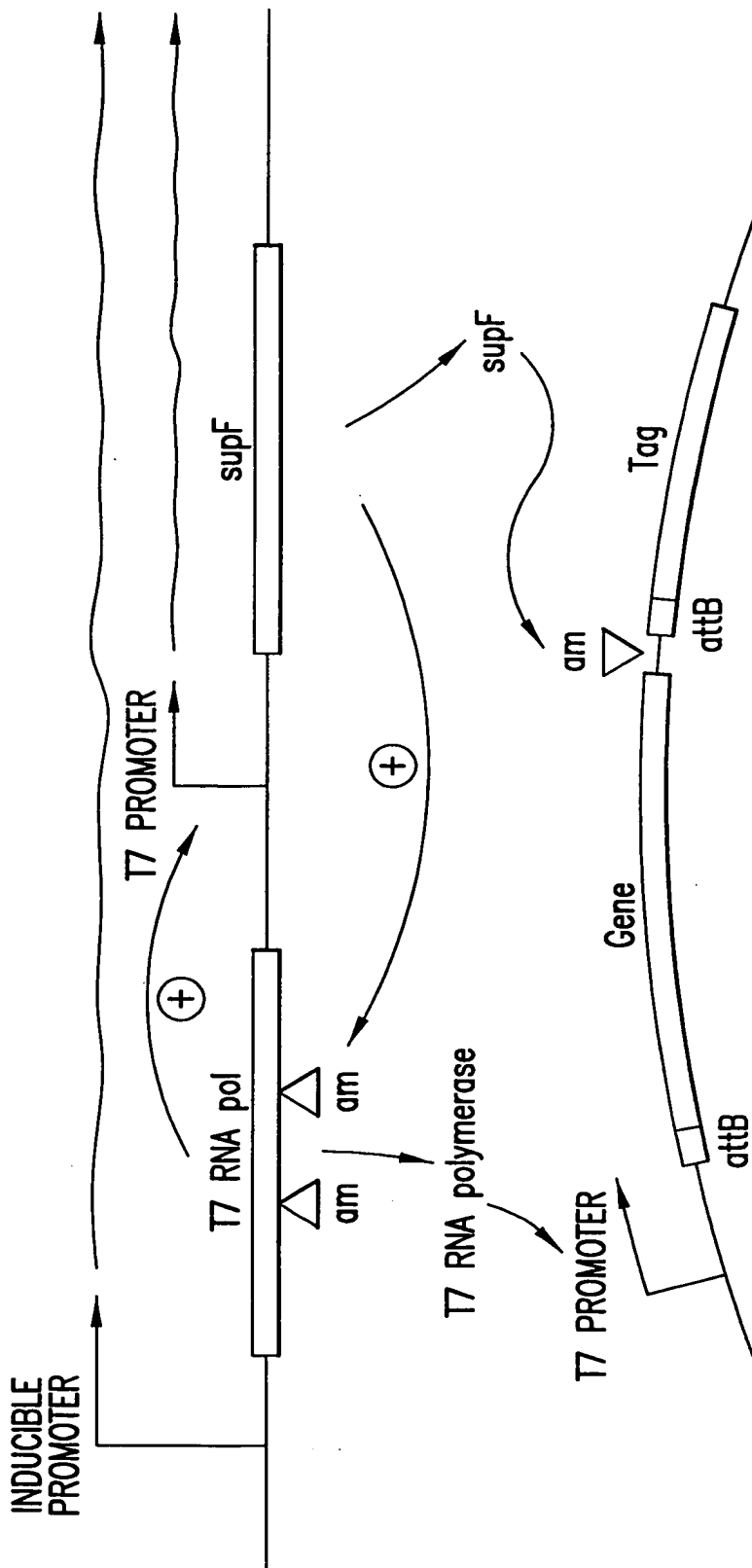


FIG. 14B

16/34

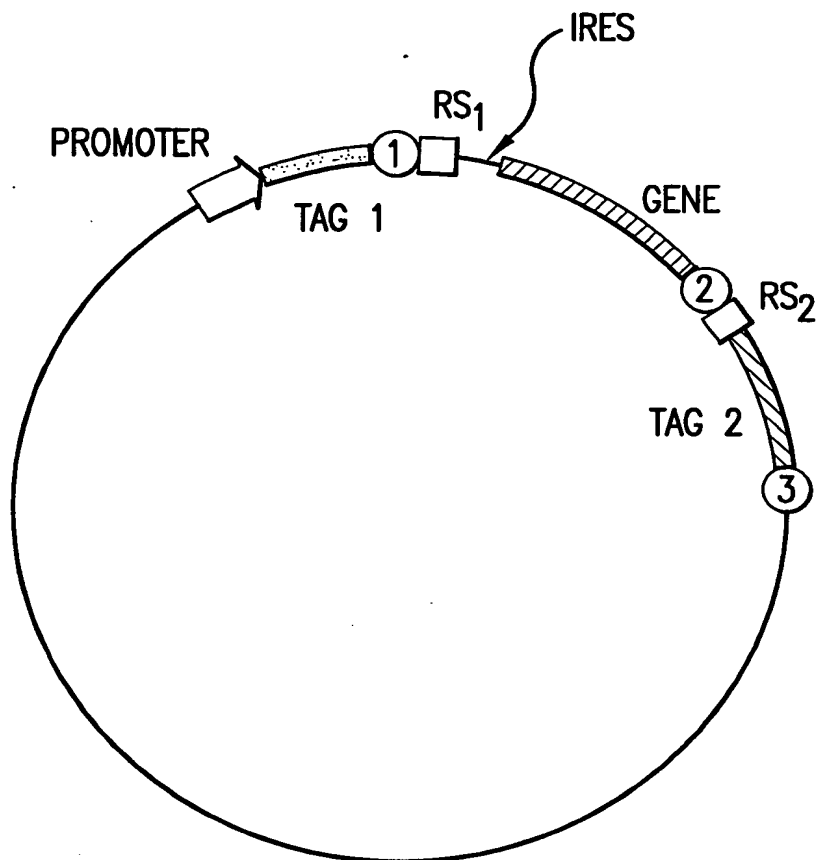


FIG.15

09732914-050401

17/34

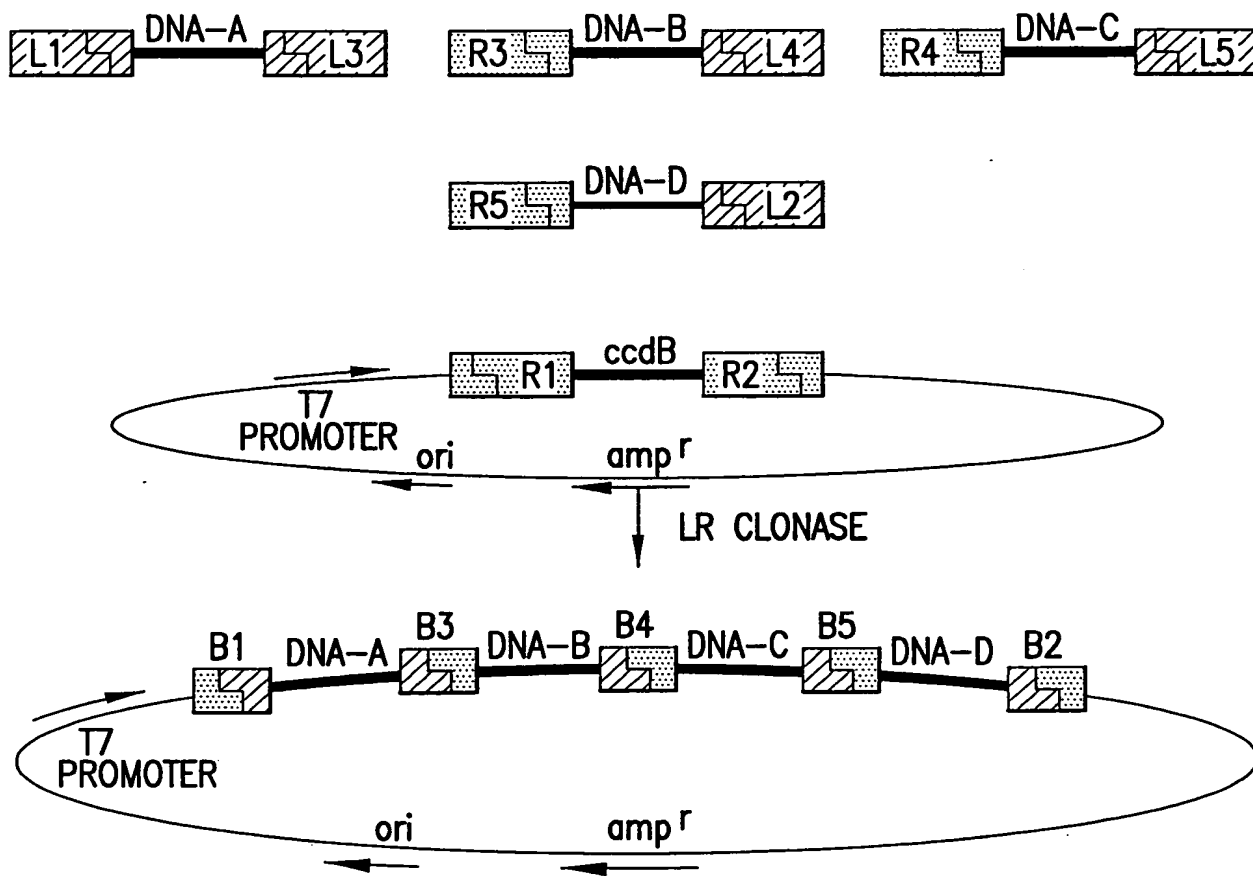


FIG.16

09732914.050401

CLONING LIGHT

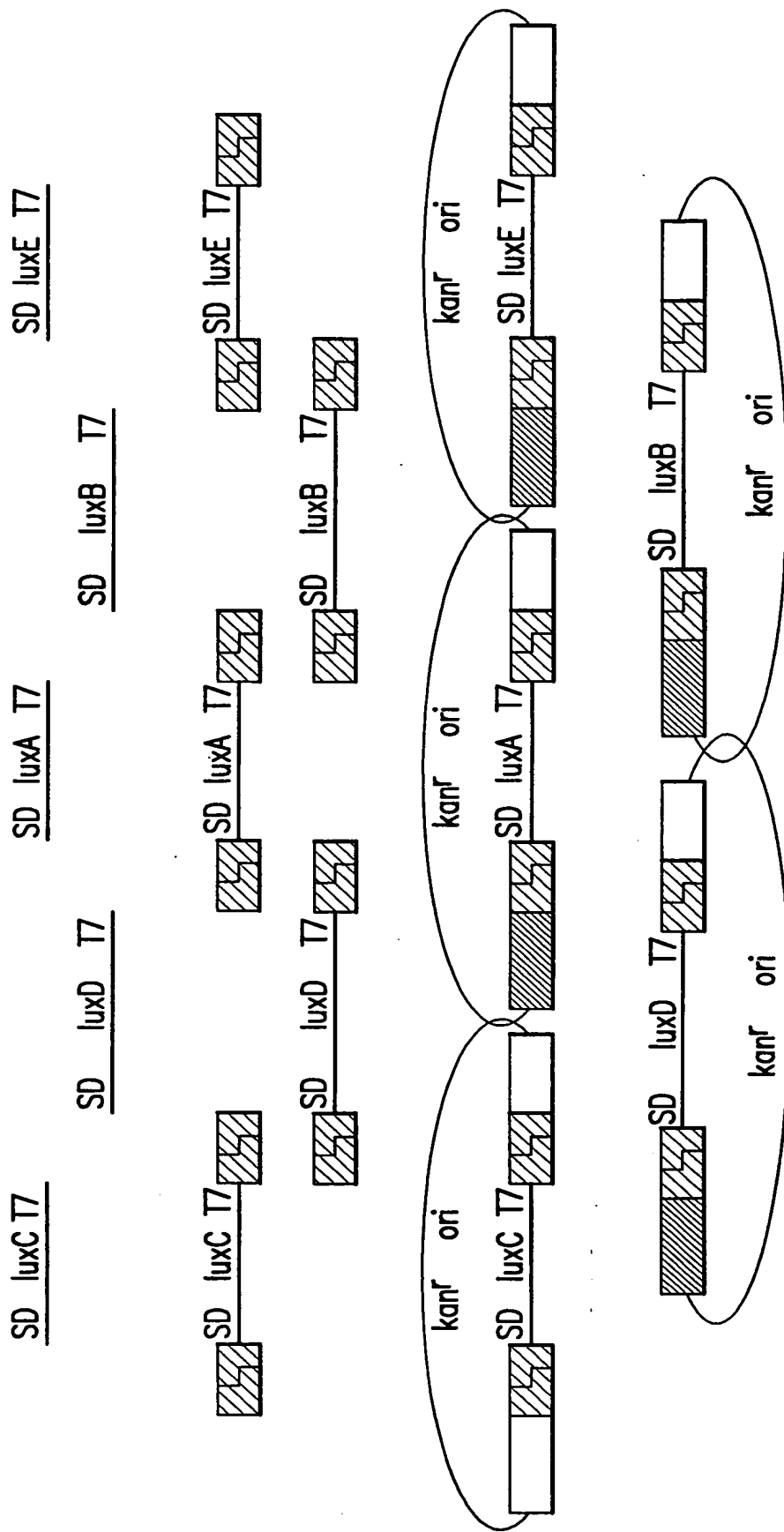


FIG. 17A

19/34

CLOWING LIGHT

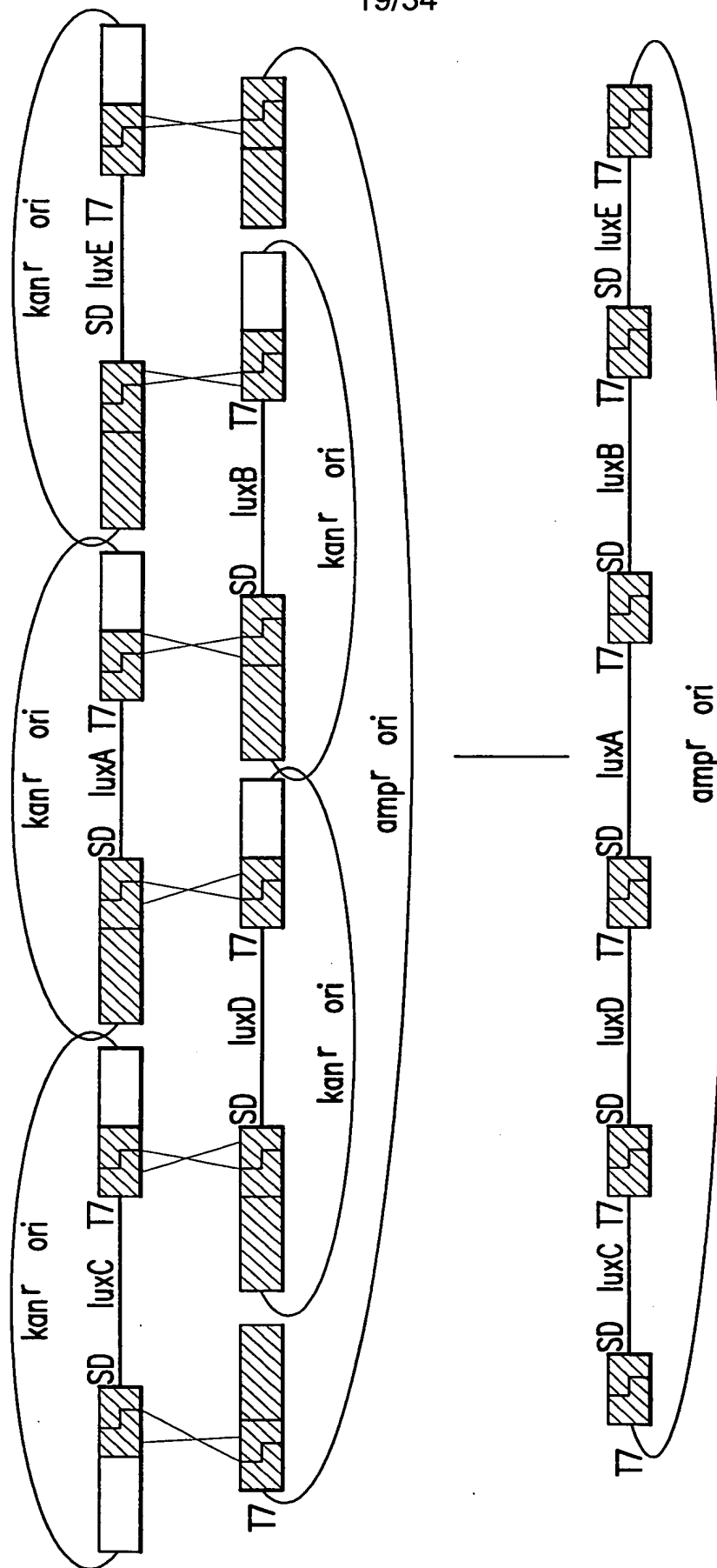


FIG. 17B

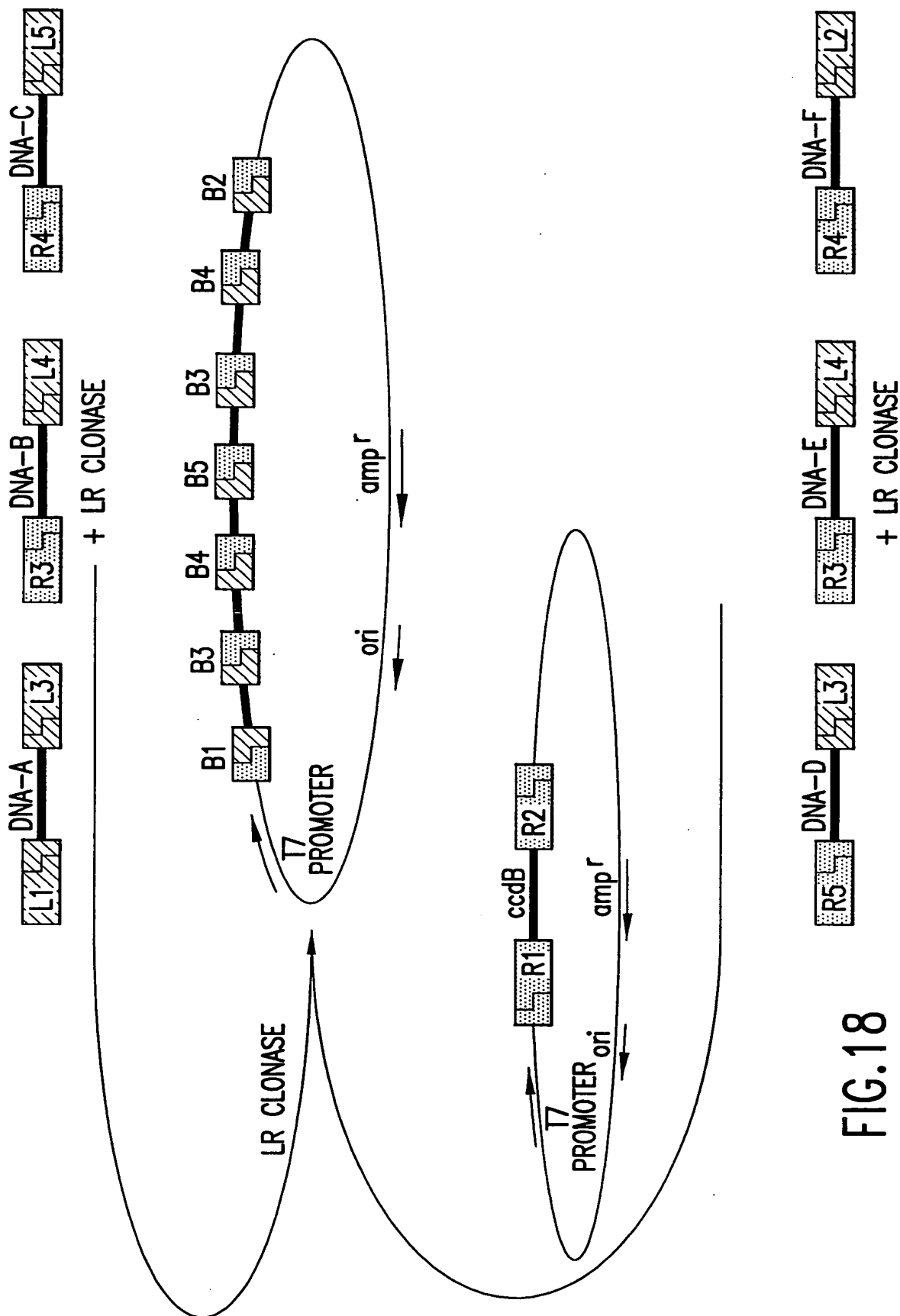
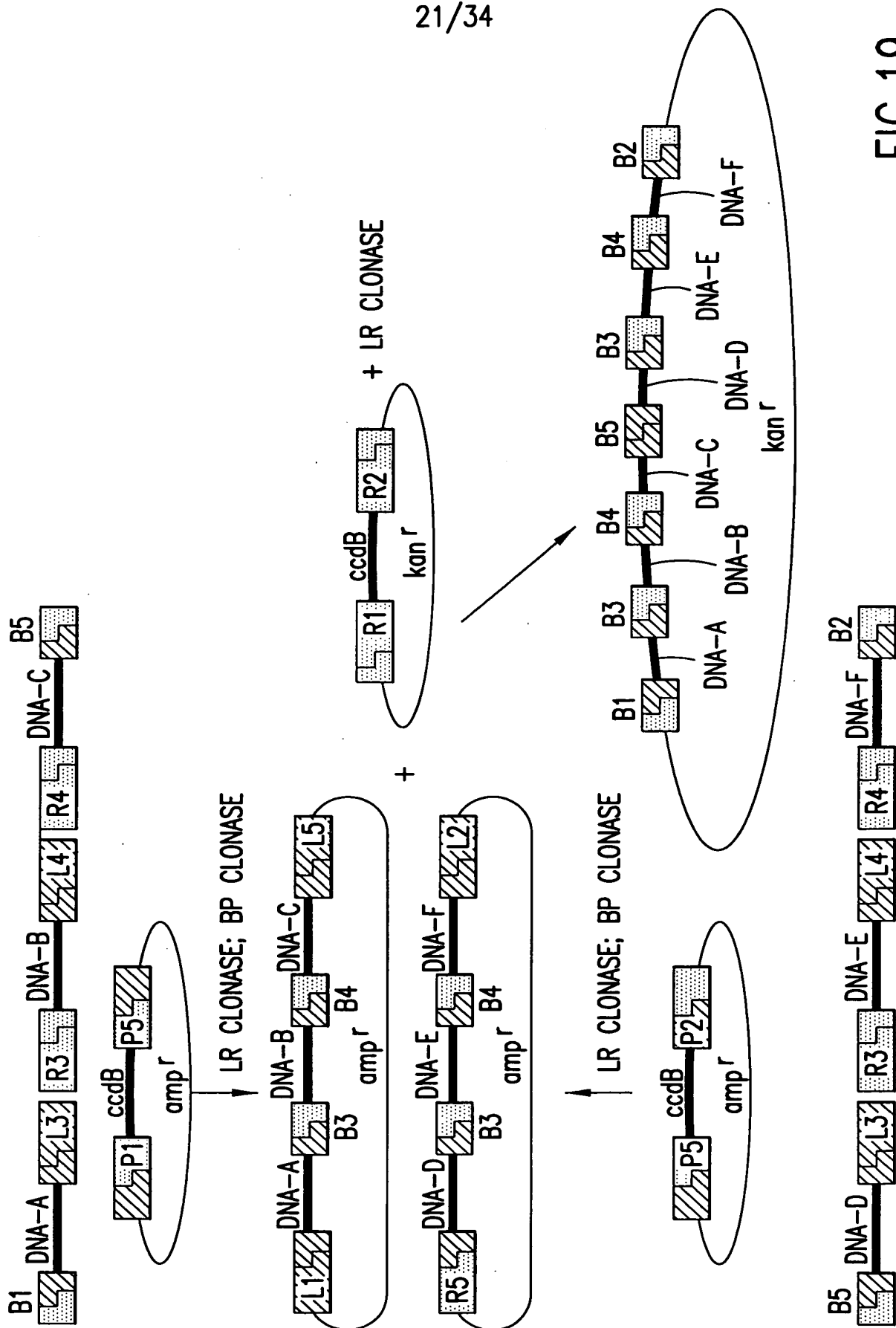


FIG.18



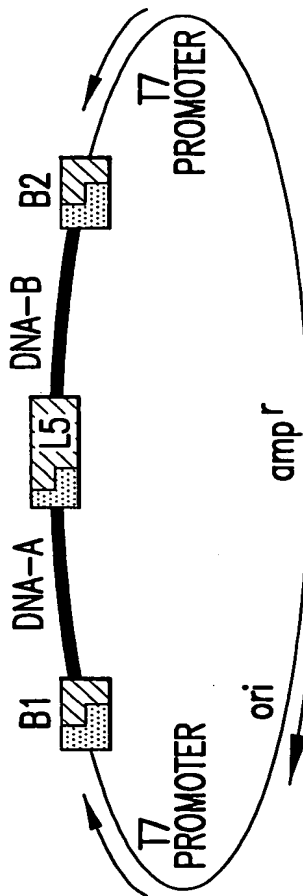


FIG. 20A

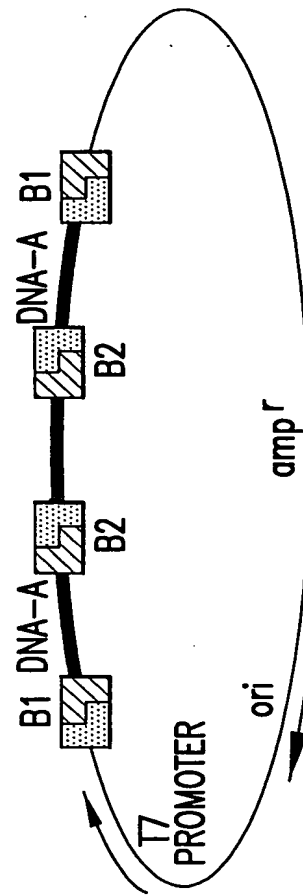


FIG. 20D

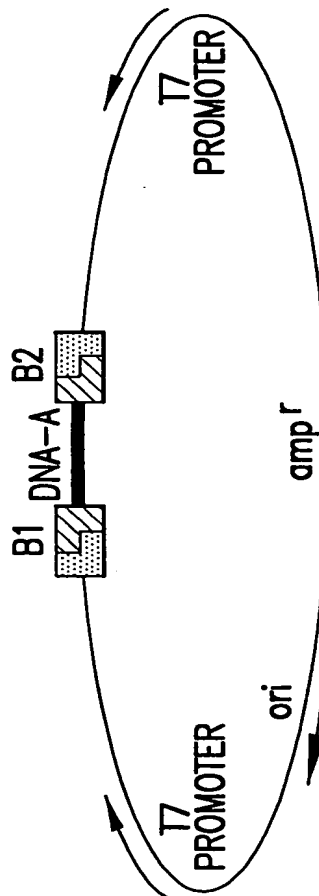


FIG. 20B

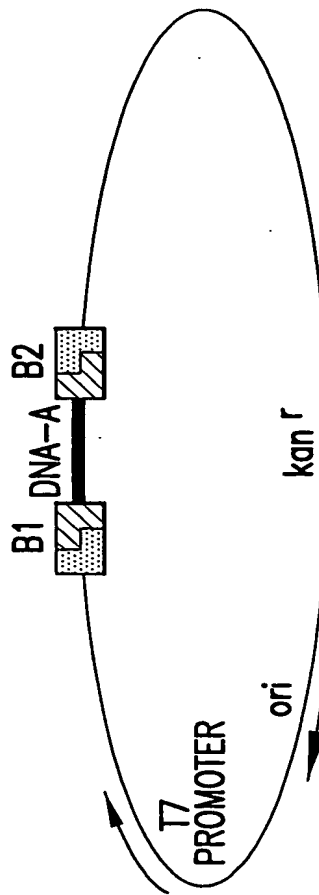


FIG. 20E

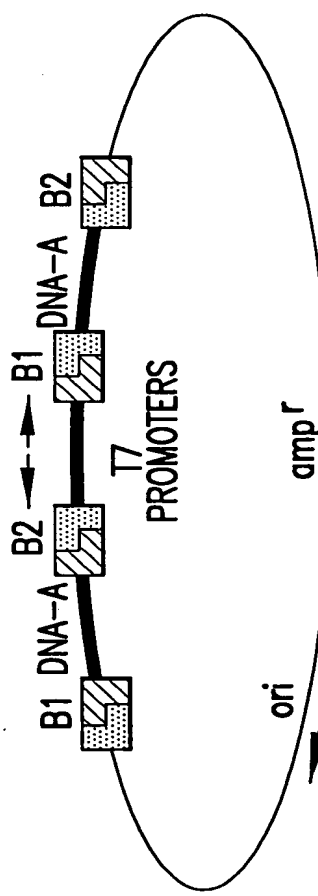


FIG. 20C

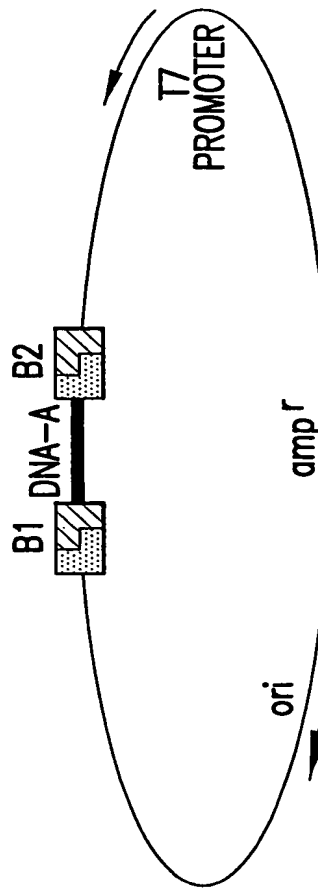


FIG. 20F

23/34

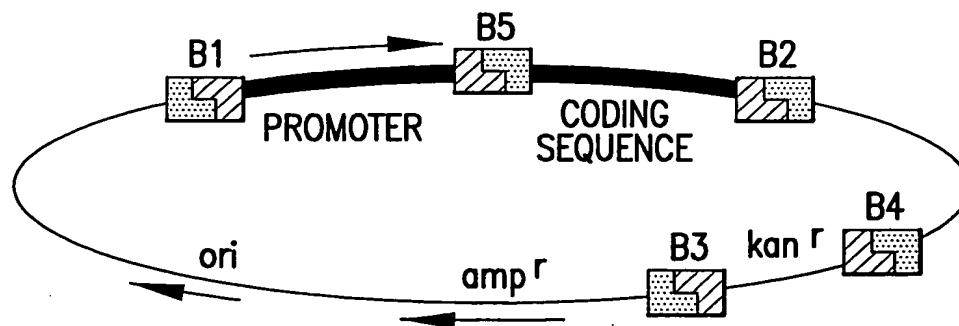


FIG.21A

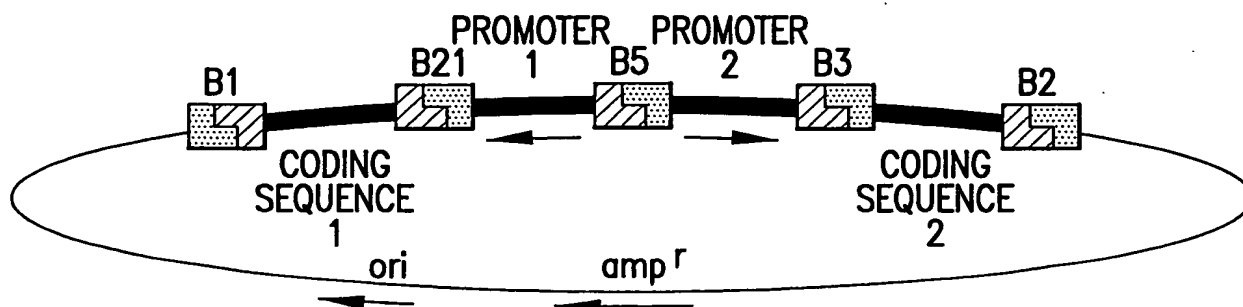


FIG.21B

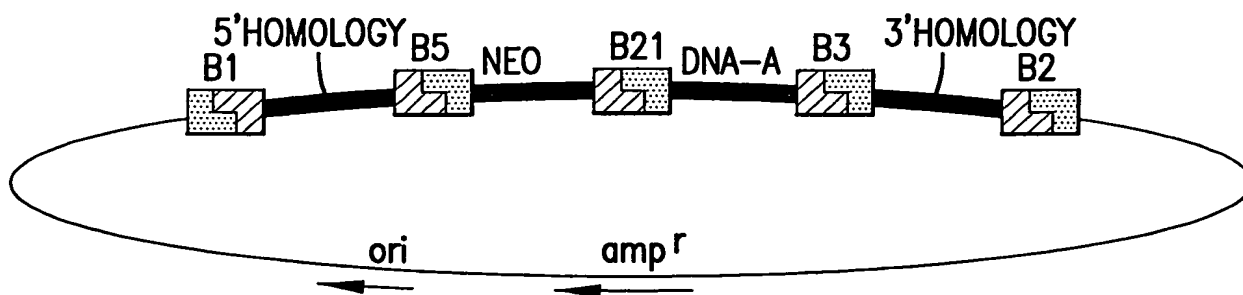


FIG.21C

00732914-050401

24/34

CONSTRUCTING GENE TARGETING VECTORS

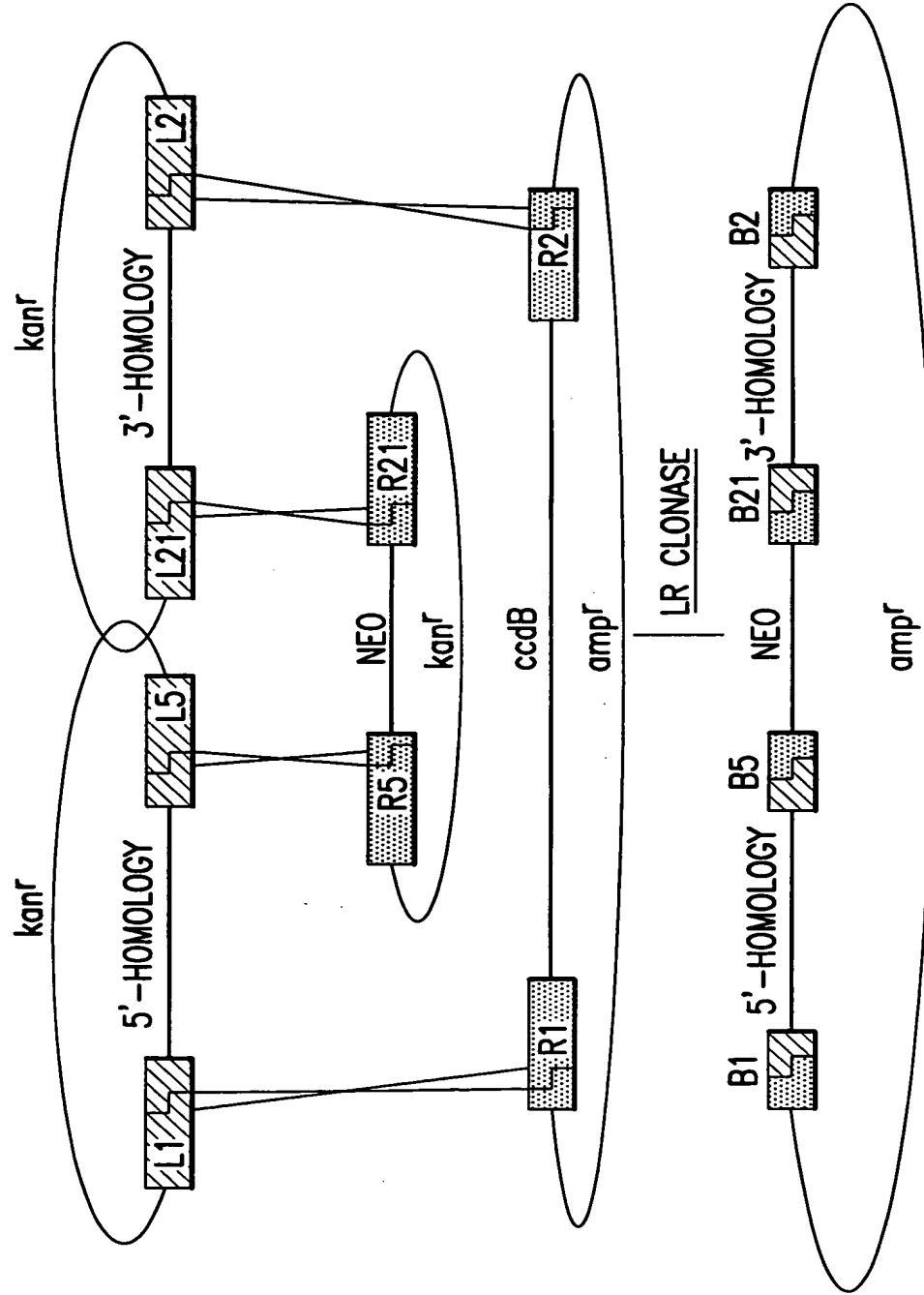


FIG. 22A

25/34

CONSTRUCTING GENE TARGETING VECTORS

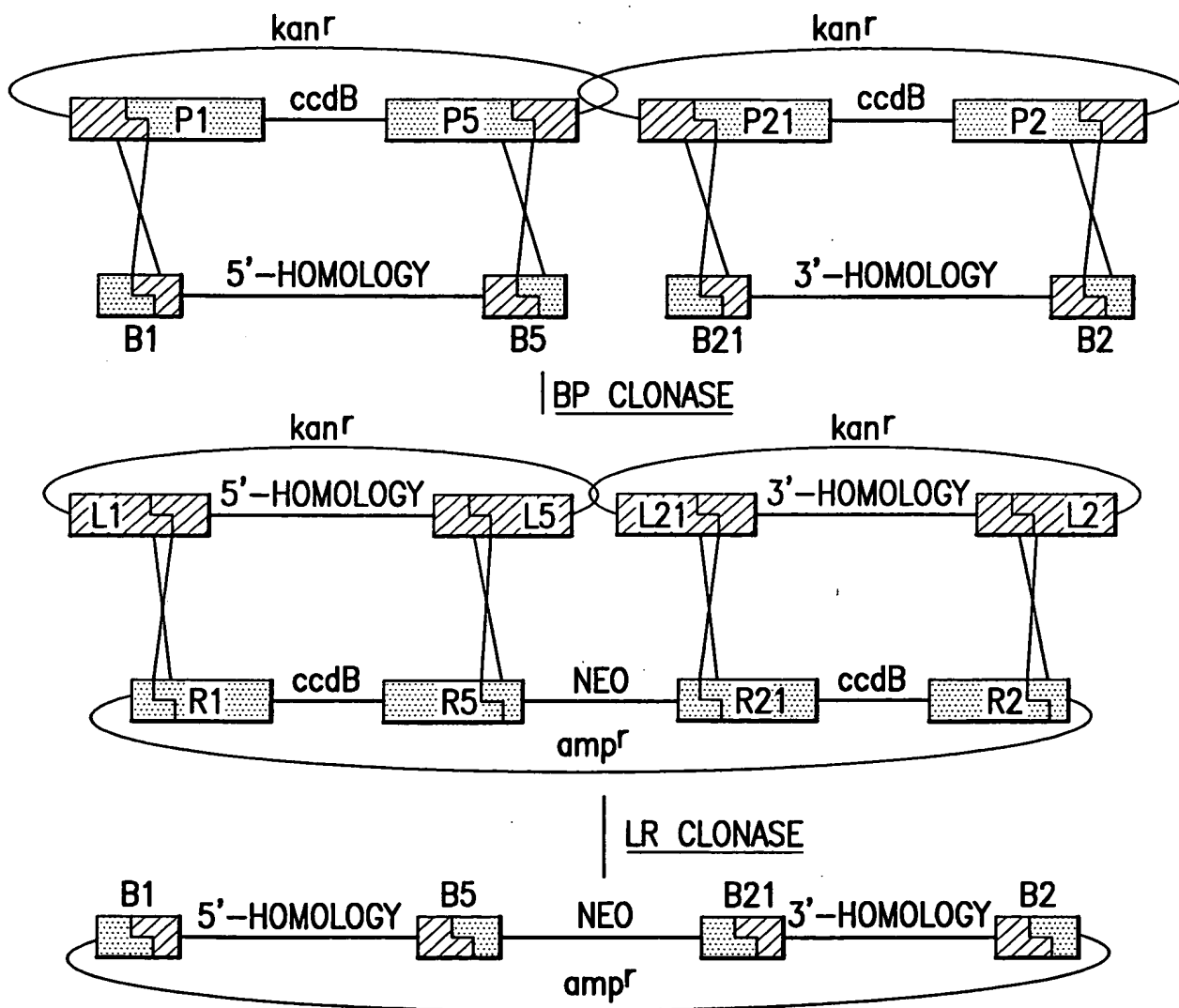


FIG. 22B

26/34

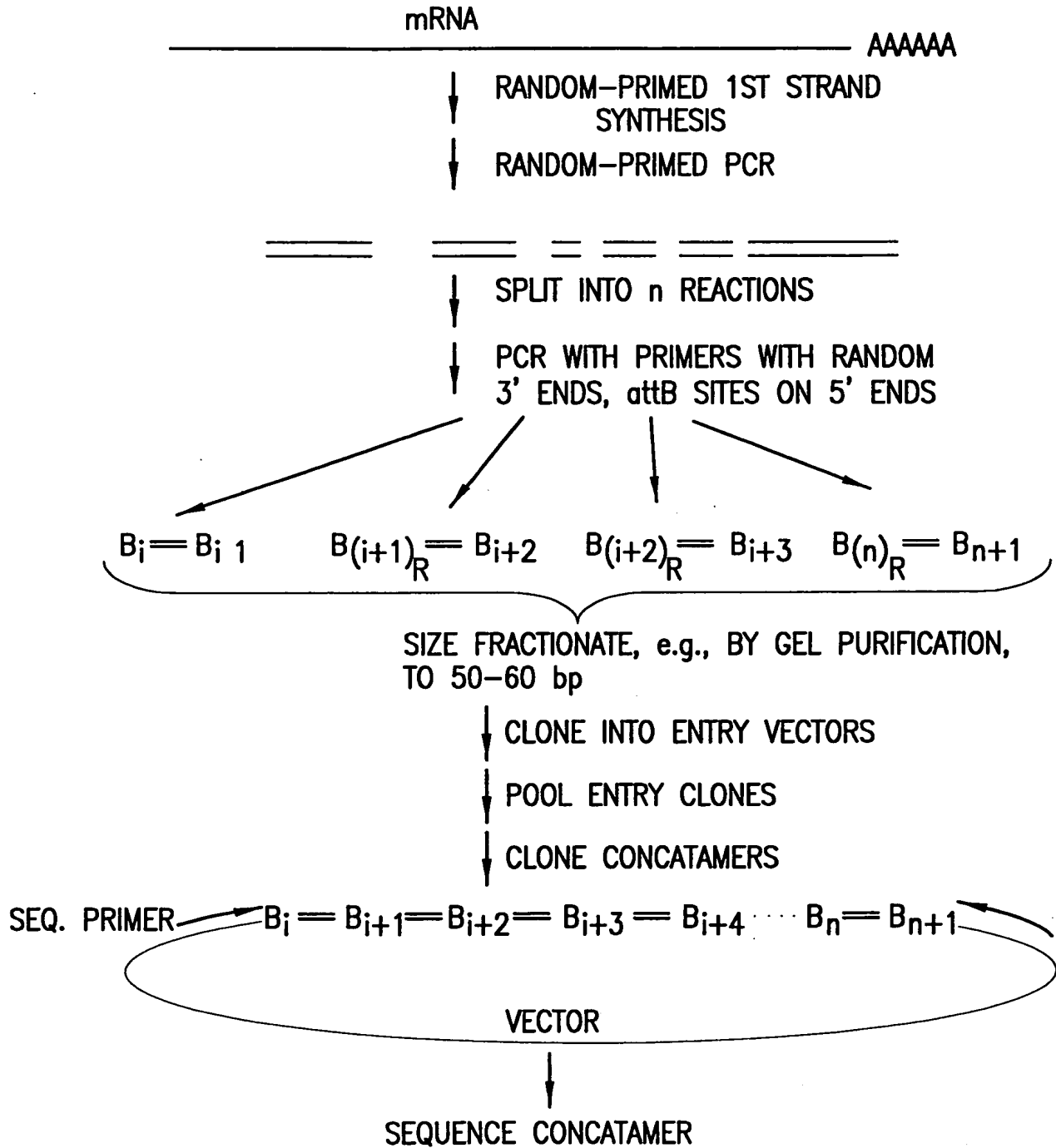


FIG. 23

09732914-050401

27/34

attB0 AGCCTGCTTTTTTATACTAACTTGAGC (SEQ ID NO:1)
 TCGGACGAAAAAATATGATTGAACTCG

attP0 GTTCAGCTTTTTTATACTAAGTTGGCA (SEQ ID NO:2)
 CAAGTCGAAAAAATATGATTCAACCGT

attL0 AGCCTGCTTTTTTATACTAAGTTGGCA (SEQ ID NO:3)
 TCGGACGAAAAAATATGATTCAACCGT

attR0 GTTCAGCTTTTTTATACTAACTTGAGC (SEQ ID NO:4)
 CAAGTCGAAAAAATATGATTGAACTCG

attB1 AGCCTGCTTTTTTGTACAACTTGT (SEQ ID NO:5)
 TCGGACGAAAAAATATGTTTGAACA

attP1 GTTCAGCTTTTTTGTACAAAGTTGGCA (SEQ ID NO:6)
 CAAGTCGAAAAAACATGTTTCAACCGT

attL1 AGCCTGCTTTTTTGTACAAAGTTGGCA (SEQ ID NO:7)
 TCGGACGAAAAAACATGTTTCAACCGT

attR1 GTTCAGCTTTTTTGTACAACTTGT (SEQ ID NO:8)
 CAAGTCGAAAAAACATGTTTGAACA

attB2 ACCCAGCTTTCTTGTACAAAGTGGT (SEQ ID NO:9)
 TGGGTCGAAAGAATATGTTTCACCA

attP2 GTTCAGCTTTCTTGTACAAAGTTGGCA (SEQ ID NO:10)
 CAAGTCGAAAGAACATGTTTCAACCGT

attL2 ACCCAGCTTTCTTGTACAAAGTTGGCA (SEQ ID NO:11)
 TGGGTCGAAAGAACATGTTTCAACCGT

attR2 GTTCAGCTTTCTTGTACAAAGTGGT (SEQ ID NO:12)
 CAAGTCGAAAGAACATGTTTGACCA

attB5 CAACTTTATTATACAAAGTTGT (SEQ ID NO:13)
 GTTGAAATAATATGTTTCAACA

attP5 GTTCAACTTTATTATACAAAGTTGGCA (SEQ ID NO:14)
 CAAGTTGAAATAATATGTTTCAACCGT

FIG.24A

T04050-4T62E260

28/34

attL5 CAACTTTATTATACAAAGTTGGCA (SEQ ID NO:15)
 GTTGAAATAATATGTTTCAACCGT

attR5 GTTCAACTTTATTATACAAAGTTGT (SEQ ID NO:16)
 CAAGTTGAAATAATATGTTTCAACA

attB11 CAACTTTTCTATACAAAGTTGT (SEQ ID NO:17)
 GTTGAAAAGATATGTTTCAACA

attP11 GTTCAACTTTTCTATACAAAGTTGGCA (SEQ ID NO:18)
 CAAGTTGAAAAGATATGTTTCAACCGT

attL11 CAACTTTTCTATACAAAGTTGGCA (SEQ ID NO:19)
 GTTGAAAAGATATGTTTCAACCGT

attR11 GTTCAACTTTTCTATACAAAGTTGT (SEQ ID NO:20)
 CAAGTTGAAAAGATATGTTTCAACA

attB17 CAACTTTTGTATACAAAGTTGT (SEQ ID NO:21)
 GTTGAAAACATATGTTTCAACA

attP17 GTTCAACTTTTGTATACAAAGTTGGCA (SEQ ID NO:22)
 CAAGTTGAAAACATATGTTTCAACCGT

attL17 CAACTTTTGTATACAAAGTTGGCA (SEQ ID NO:23)
 GTTGAAAACATATGTTTCAACCGT

attR17 GTTCAACTTTTGTATACAAAGTTGT (SEQ ID NO:24)
 CAAGTTGAAAACATATGTTTCAACA

attB19 CAACTTTTTCGTACAAAGTTGT (SEQ ID NO:25)
 GTTGAAAAGCATGTTTCAACA

attP19 GTTCAACTTTTTCGTACAAAGTTGGCA (SEQ ID NO:26)
 CAAGTTGAAAAGCATGTTTCAACCGT

attL19 CAACTTTTTCGTACAAAGTTGGCA (SEQ ID NO:27)
 GTTGAAAAGCATGTTTCAACCGT

attR19 GTTCAACTTTTTCGTACAAAGTTGT (SEQ ID NO:28)
 CAAGTTGAAAAGCATGTTTCAACA

FIG.24B

09732914-050401

29/34

attB20 CAACTTTTTTGGTACAAAAGTTGT (SEQ ID NO:29)
GTTGAAAAACCATGTTTCAACA

attP20 GTTCAACTTTTTTGGTACAAAAGTTGGCA (SEQ ID NO:30)
CAAGTTGAAAAACCATGTTTCAACCGT

attL20 CAACTTTTTTGGTACAAAAGTTGGCA (SEQ ID NO:31)
GTTGAAAAACCATGTTTCAACCGT

attR20 GTTCAACTTTTTTGGTACAAAAGTTGT (SEQ ID NO:32)
CAAGTTGAAAAACCATGTTTCAACA

attB21 CAACTTTTTTAATACAAAAGTTGT (SEQ ID NO:33)
GTTGAAAAATTATGTTTCAACA

attP21 GTTCAACTTTTTTAATACAAAAGTTGGCA (SEQ ID NO:34)
CAAGTTGAAAAATTATGTTTCAACCGT

attL21 CAACTTTTTTAATACAAAAGTTGGCA (SEQ ID NO:35)
GTTGAAAAATTATGTTTCAACCGT

attR21 GTTCAACTTTTTTAATACAAAAGTTGT (SEQ ID NO:36)
CAAGTTGAAAAATTATGTTTCAACA

FIG.24C

09732914-050401

30/34

VECTOR ASSEMBLY USING MODULAR VECTOR ELEMENT ENTRY CLONES

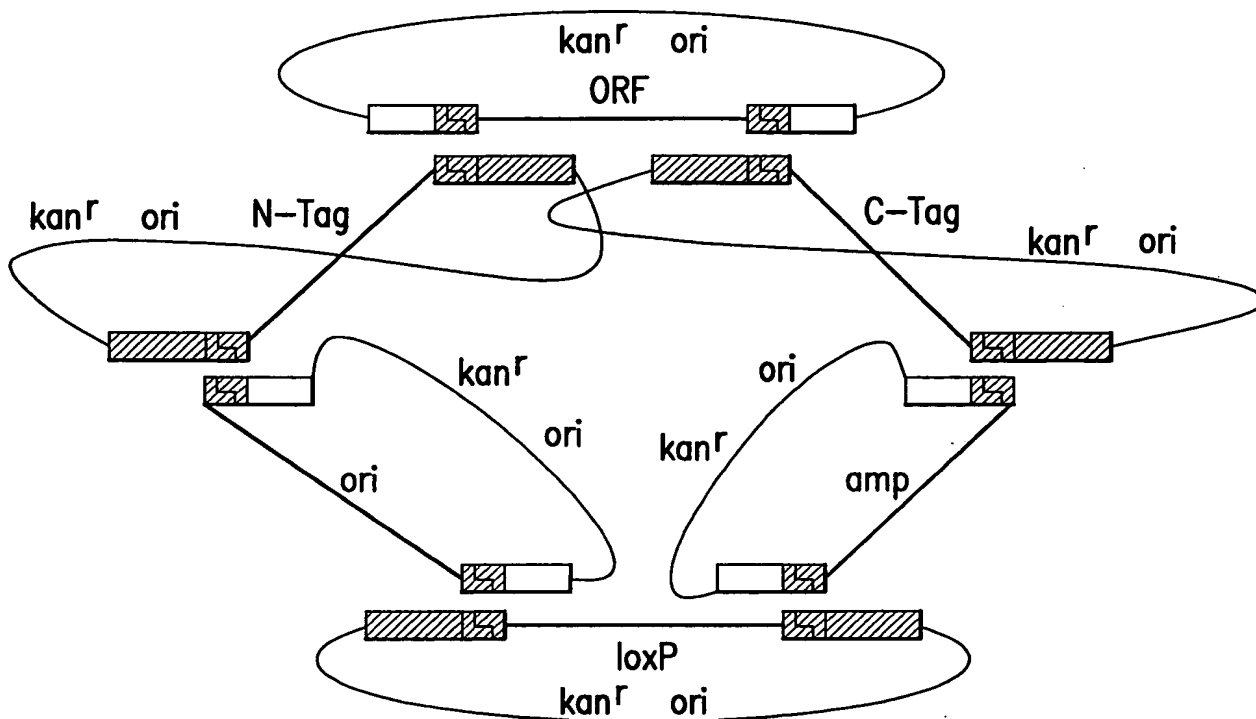


FIG. 25A

VECTOR ASSEMBLY USING MODULAR VECTOR ELEMENT ENTRY CLONES

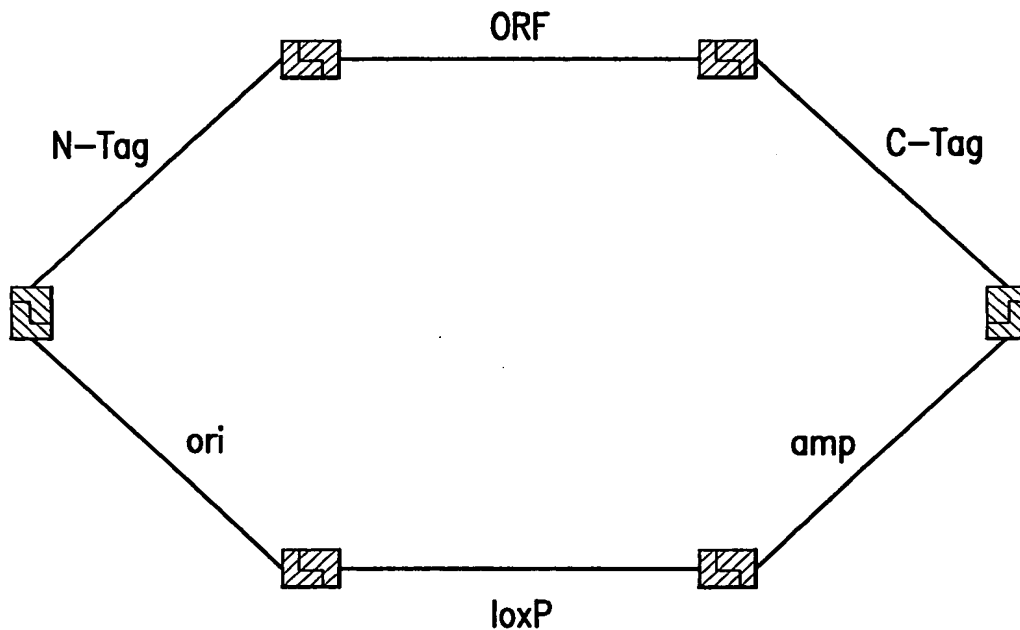


FIG. 25B

09732914-050401
 101050-1162260

31/34

CONSTRUCTION OF attP PLASMIDS

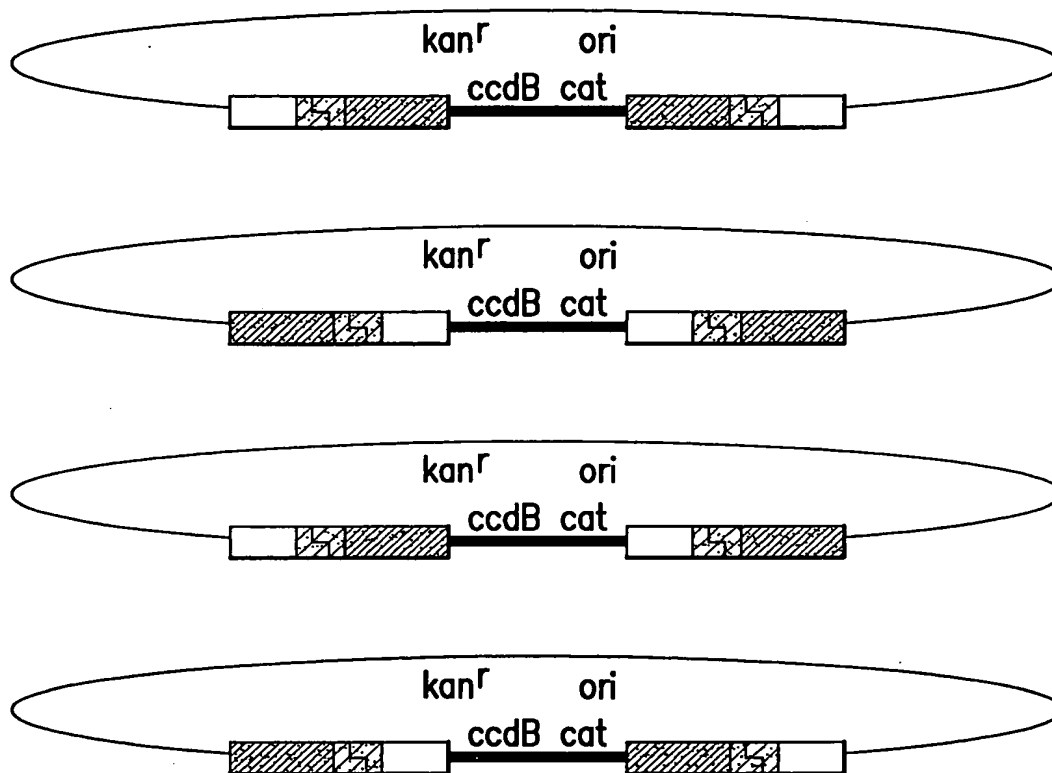


FIG.26A

09732914-050401
T04050-4T62260

32/34

CONSTRUCTION OF attP PLASMIDS

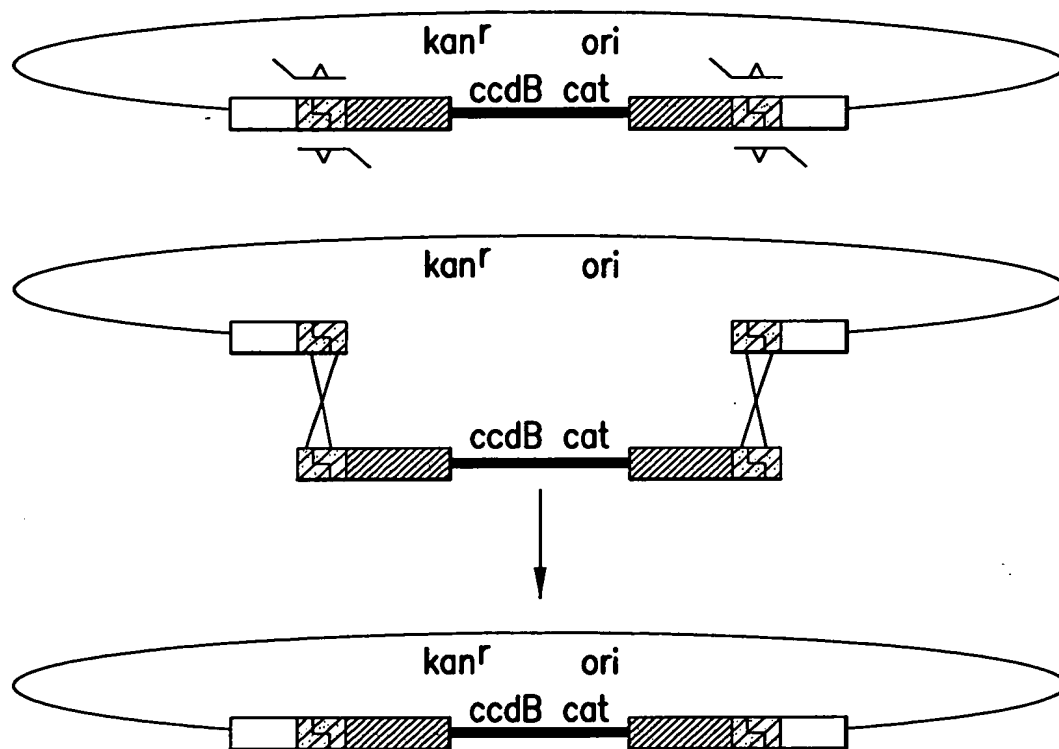


FIG.26B

09732914-050401

33/34

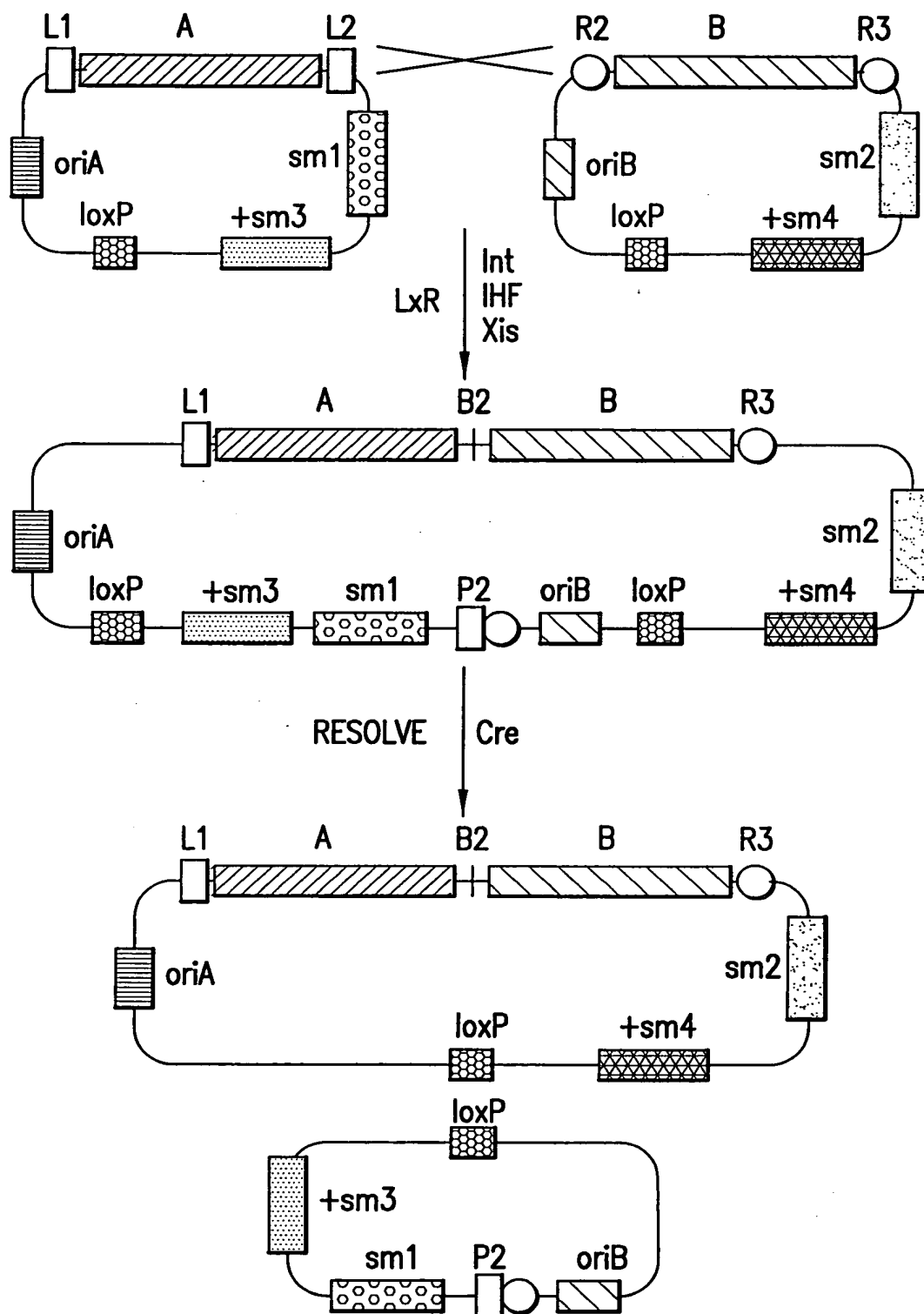


FIG.27A

09732914-050401

34/34

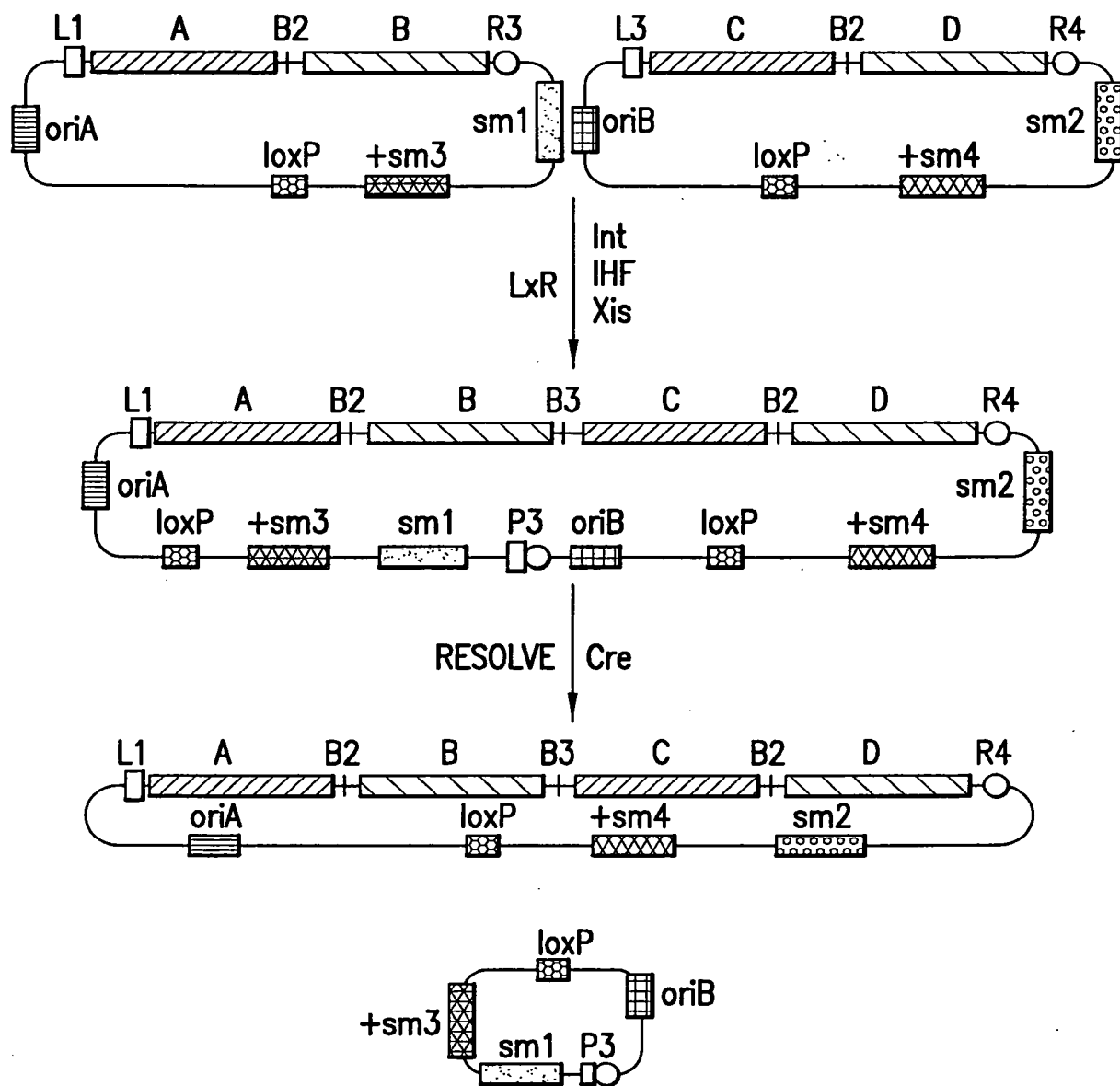


FIG.27B

09732914-050401